

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P456490

Luminaire Tested: **GALN-SA7D-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48982 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

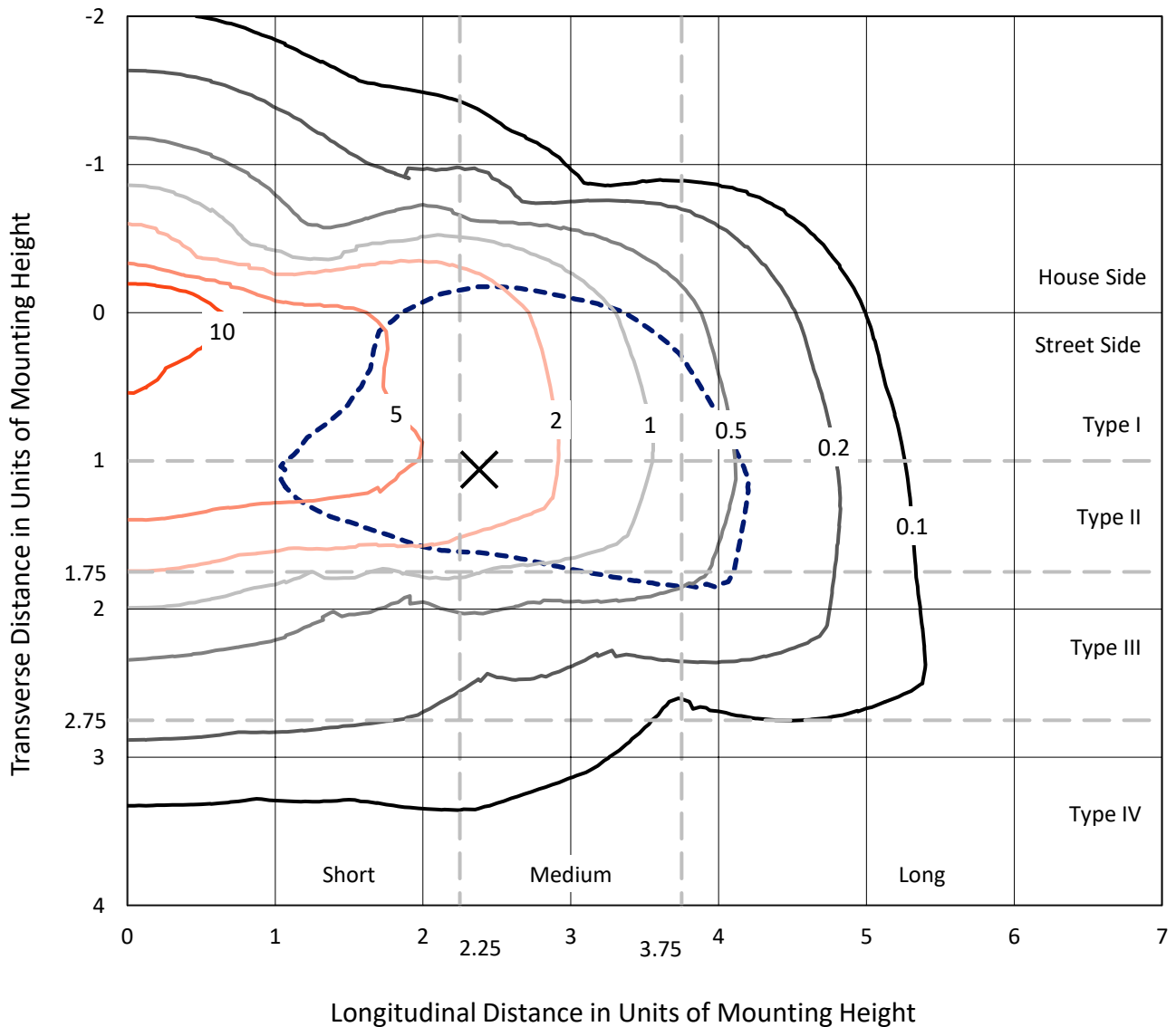




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Iso-Footcandle Lines of Horizontal Illumination

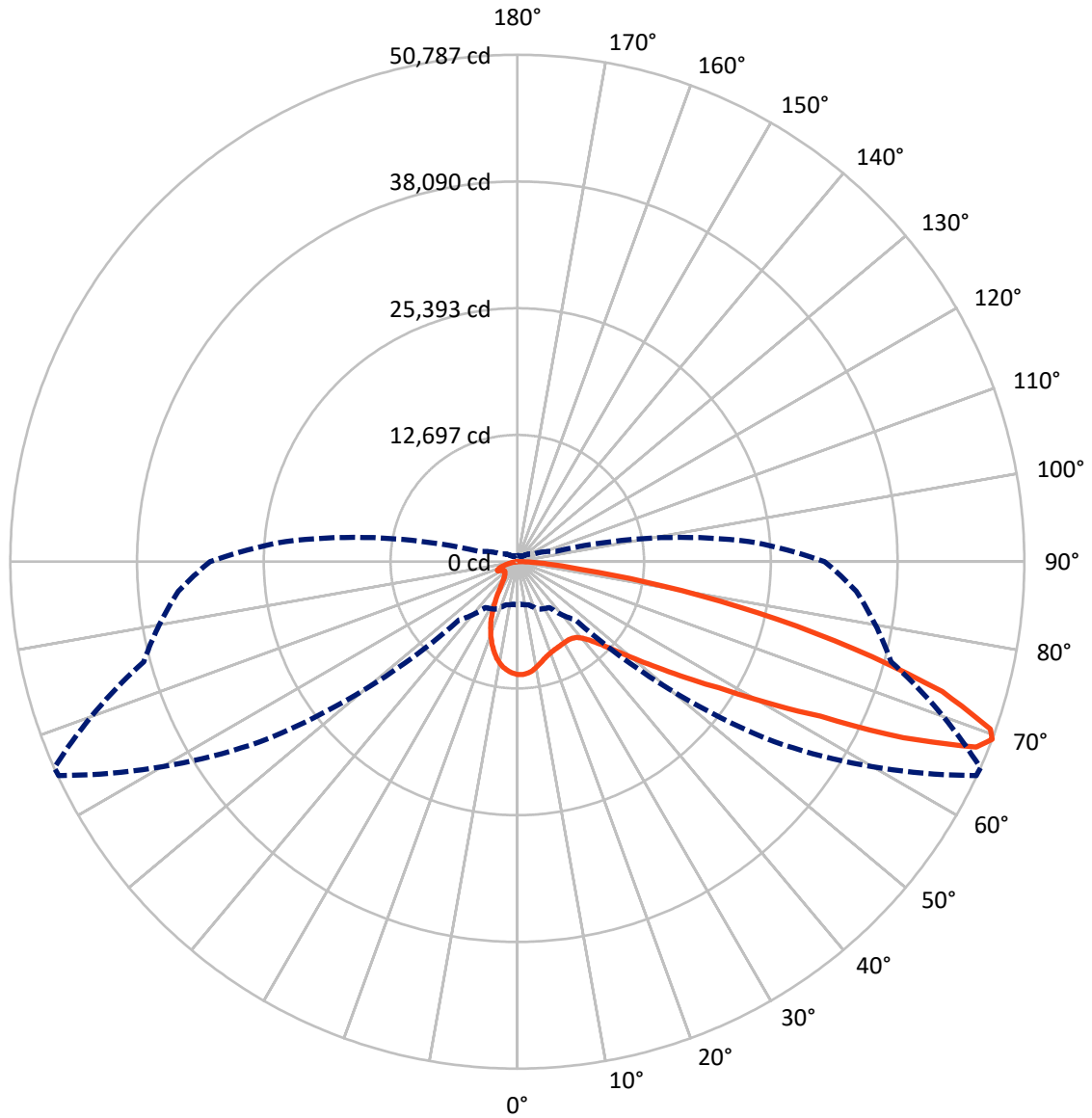
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9211.7	0.0	9211.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	39770.3	0.0	39770.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	48982.0	0.0	48982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.3	2.0
10°-20°	2329.8	4.8
20°-30°	3171.8	6.5
30°-40°	4262.2	8.7
40°-50°	6364.2	13.0
50°-60°	10123.2	20.7
60°-70°	12451.0	25.4
70°-80°	8101.2	16.5
80°-90°	1196.3	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	48982.0	100.0
0°-180°	48982.0	100.0

Coefficient of Utilization



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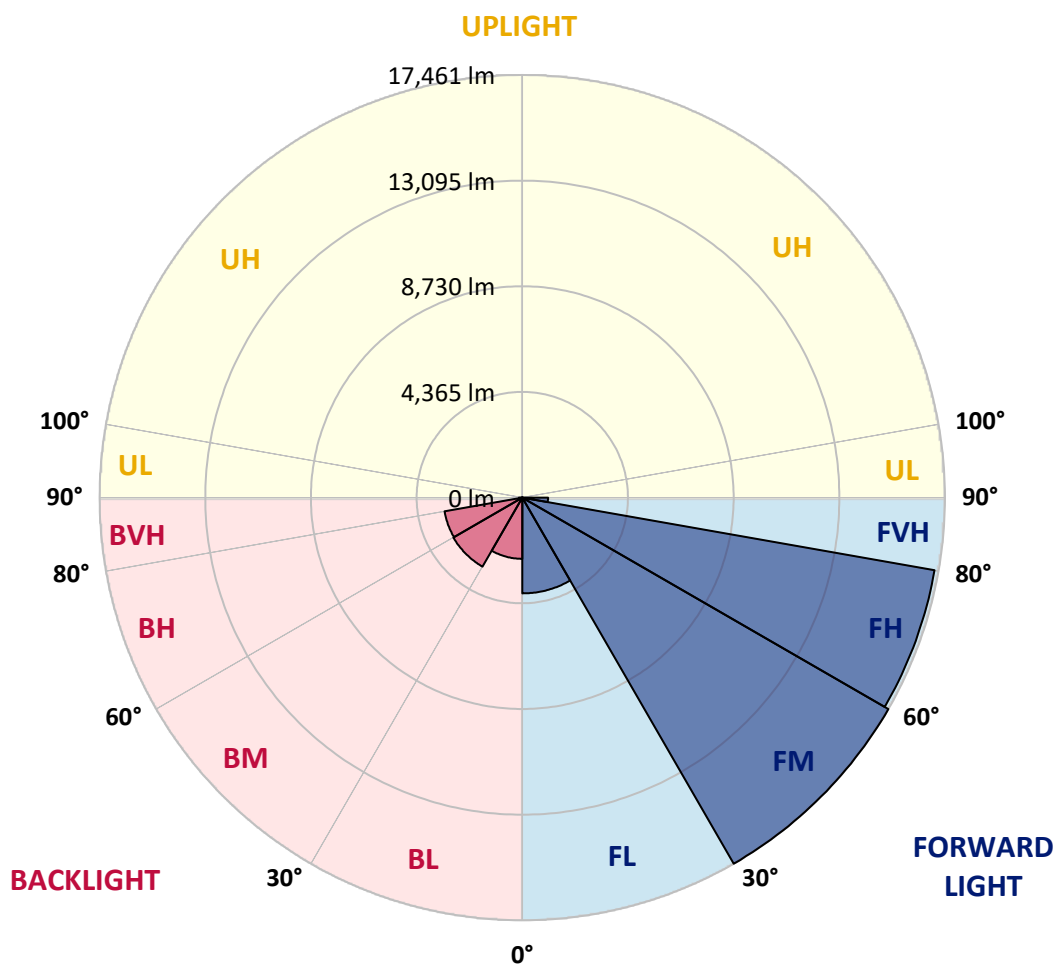
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3955.2	8.1			
FM	(30°-60°)	17460.6	35.6			
FH	(60°-80°)	17290.9	35.3			G5
FVH	(80°-90°)	1063.6	2.2			G5
BL	(0°-30°)	2528.6	5.2	B4/5000		
BM	(30°-60°)	3289.0	6.7	B3/5000		
BH	(60°-80°)	3261.3	6.7	B4/5000		G4/5000
BVH	(80°-90°)	132.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3
2.5°	10915.3	10958.7	11007.5	11061.8	11164.8	11221.8	11262.5	11308.6	11314.0	11338.4	11319.4
5°	10109.6	10161.2	10234.4	10337.5	10492.1	10733.5	10983.1	11186.5	11210.9	11324.9	11357.4
7.5°	9436.9	9466.8	9526.5	9691.9	9911.6	10180.2	10543.7	10956.0	11015.6	11286.9	11381.8
10°	8889.0	8918.8	8989.4	9160.3	9377.3	9713.6	10112.4	10654.9	10703.7	11170.3	11387.3
12.5°	8479.4	8506.5	8582.5	8750.7	9000.2	9314.9	9754.3	10329.4	10399.9	11015.6	11335.7
15°	8167.5	8219.0	8281.4	8419.7	8682.9	8986.7	9412.5	10031.0	10087.9	10852.9	11300.5
17.5°	8034.6	8059.0	8102.4	8229.9	8422.4	8720.8	9149.4	9797.7	9865.5	10739.0	11292.3
20°	8040.0	8064.4	8072.5	8143.1	8281.4	8539.1	8962.2	9613.3	9694.6	10638.6	11305.9
22.5°	8224.4	8227.1	8197.3	8172.9	8227.1	8441.4	8829.3	9474.9	9569.9	10595.2	11316.7
25°	8509.2	8558.1	8514.7	8400.7	8300.4	8403.5	8777.8	9399.0	9488.5	10532.8	11303.2
27.5°	8970.4	8978.5	8943.3	8788.6	8528.2	8452.3	8756.1	9342.0	9417.9	10486.7	11235.4
30°	9588.8	9564.4	9531.9	9361.0	8951.4	8639.4	8802.2	9290.5	9369.1	10418.9	11154.0
32.5°	10215.4	10291.4	10261.6	10060.8	9529.2	9002.9	8951.4	9285.0	9350.1	10367.3	11064.5
35°	10880.0	10915.3	11056.3	10953.2	10408.0	9591.6	9230.8	9369.1	9420.7	10370.1	11002.1
37.5°	11400.8	11495.8	11826.7	11916.2	11403.5	10370.1	9683.8	9607.8	9629.5	10503.0	11026.5
40°	12030.1	12192.9	12618.8	12984.9	12648.6	11381.8	10454.1	10050.0	10077.1	10823.0	11186.5
42.5°	12827.6	12941.5	13513.9	14010.3	13956.0	12719.1	11387.3	10774.2	10787.8	11460.5	11634.1
45°	13760.7	13923.5	14566.4	15312.3	15439.8	14232.7	12735.4	11870.1	11862.0	12450.6	12469.6
47.5°	14954.3	15054.6	15692.1	16505.8	17021.2	16134.2	14371.1	13443.4	13356.6	13893.6	13739.0
50°	16052.8	16210.2	16693.0	17582.7	18865.7	18361.2	16522.1	15483.2	15279.8	15781.6	15521.2
52.5°	16514.0	16679.4	17086.3	18190.3	20447.1	21241.9	19253.6	17916.3	17577.3	17962.5	17867.5
55°	15713.8	15928.1	16307.8	17650.5	21141.6	24564.8	22937.3	20729.3	20482.4	20316.9	20344.1
57.5°	13562.7	13766.2	14278.8	15759.9	20311.5	26976.2	28196.9	24345.1	23816.1	23053.9	23184.1
60°	10323.9	10451.4	10717.3	12358.3	17851.2	27602.8	34169.9	28915.7	28579.4	25780.0	25872.2
62.5°	7332.0	7475.8	7660.2	8479.4	13069.0	25837.0	38846.3	35298.3	34096.7	28603.8	28514.3
65°	5954.0	5856.4	6078.8	6461.3	7668.4	20024.0	39898.8	44157.5	42502.8	32322.7	31080.3
67.5°	4896.1	4793.1	5012.8	5693.6	5832.0	11623.2	36106.7	49908.1	49577.2	36367.1	33687.1
69°	4334.6	4280.4	4473.0	5248.8	5598.7	8254.3	31454.6	50708.3	50786.9	38751.4	34088.5
70°	3906.1	3927.8	4114.9	5023.6	5492.9	6805.8	26884.0	49604.3	50271.6	39942.2	33654.5
72.5°	2875.3	2921.4	3181.8	4161.0	5392.5	5775.0	15998.6	43327.5	44507.4	40012.7	30787.4
75°	2010.0	1988.3	2218.9	3133.0	5094.2	5723.5	9396.2	33508.0	34845.3	34584.9	25869.5
77.5°	1315.6	1350.8	1535.3	2213.4	4285.8	5680.1	6124.9	23772.7	24640.7	23129.9	15301.5
80°	927.7	925.0	1028.1	1510.9	3179.1	5457.6	5015.5	14984.1	14764.4	9089.7	4538.1
82.5°	531.7	569.6	689.0	1063.3	2126.6	4803.9	4614.0	7166.5	6542.7	2590.5	1532.6
85°	295.7	309.2	409.6	642.9	1242.3	3618.5	4028.1	3260.5	3076.0	1082.3	659.1
87.5°	94.9	103.1	170.9	325.5	564.2	1708.9	2281.2	1505.5	1388.8	390.6	265.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3	11311.3
2.5°	11327.6	11360.1	11273.3	11189.2	11113.3	11007.5	10912.6	10833.9	10779.6	10771.5	10744.4
5°	11365.6	11368.3	11202.8	10980.4	10763.4	10524.7	10277.8	10101.5	9936.0	9843.8	9797.7
7.5°	11392.7	11368.3	11069.9	10709.1	10291.4	9857.4	9423.4	9076.2	8807.6	8701.8	8742.5
10°	11381.8	11305.9	10869.2	10291.4	9683.8	9035.5	8411.6	7923.3	7475.8	7245.2	7250.6
12.5°	11322.2	11197.4	10570.8	9822.1	8929.7	8061.7	7106.9	6447.7	5929.6	5623.1	5528.2
15°	11270.6	11053.6	10220.9	9184.7	8075.2	6835.6	5671.9	4858.2	4424.2	4182.7	4180.0
17.5°	11216.4	10915.3	9838.4	8509.2	7093.3	5498.3	4277.7	3656.5	3453.1	3477.5	3436.8
20°	11159.4	10752.5	9439.7	7757.9	5897.1	4101.4	3203.5	2951.2	3008.2	3119.4	3135.7
22.5°	11094.3	10578.9	9011.1	6930.5	4638.4	3086.9	2598.6	2560.6	2707.1	2880.7	2905.1
25°	10993.9	10361.9	8471.3	6065.2	3577.8	2487.4	2275.8	2302.9	2446.7	2593.2	2609.5
27.5°	10852.9	10093.4	7926.1	4985.7	2688.1	2134.8	2080.5	2115.8	2186.3	2275.8	2297.5
30°	10663.0	9789.6	7299.5	4052.5	2153.8	1958.5	1936.8	1955.7	1996.4	2034.4	2045.3
32.5°	10473.1	9496.6	6667.4	3103.1	1920.5	1841.8	1820.1	1820.1	1820.1	1825.5	1828.3
35°	10296.8	9219.9	5989.3	2416.9	1798.4	1749.6	1719.8	1687.2	1681.8	1662.8	1662.8
37.5°	10199.2	8967.7	5267.8	2023.6	1708.9	1673.6	1633.0	1578.7	1548.9	1551.6	1546.1
40°	10218.1	8802.2	4611.3	1801.1	1635.7	1597.7	1535.3	1472.9	1453.9	1453.9	1448.5
42.5°	10432.4	8748.0	3982.0	1684.5	1565.1	1521.7	1443.1	1386.1	1375.3	1372.5	1378.0
45°	10926.1	8880.9	3417.8	1608.5	1505.5	1440.4	1361.7	1310.2	1299.3	1299.3	1296.6
47.5°	11889.1	9312.2	3013.6	1559.7	1462.1	1378.0	1296.6	1245.1	1226.1	1220.6	1220.6
50°	13386.4	10248.0	2712.5	1516.3	1407.8	1321.0	1236.9	1177.2	1147.4	1144.7	1142.0
52.5°	15466.9	11707.3	2595.9	1483.8	1348.1	1261.3	1169.1	1112.1	1074.2	1066.0	1060.6
55°	17900.1	13744.5	2755.9	1459.3	1285.7	1193.5	1098.6	1038.9	1003.6	987.4	984.7
57.5°	20718.4	16191.2	3363.6	1426.8	1228.8	1120.3	1028.1	968.4	930.4	911.4	906.0
60°	23249.2	18705.7	4424.2	1407.8	1180.0	1041.6	946.7	892.4	857.2	838.2	835.5
62.5°	26029.6	21103.6	5690.9	1459.3	1158.3	965.7	870.7	821.9	792.1	773.1	773.1
65°	28999.8	23504.2	6529.1	1633.0	1190.8	906.0	789.4	748.7	721.5	708.0	705.3
67.5°	31001.7	24334.2	5379.0	1812.0	1272.2	840.9	710.7	678.1	661.9	648.3	648.3
69°	30784.7	23284.5	3968.5	1858.1	1296.6	808.3	667.3	642.9	621.2	615.7	610.3
70°	30098.4	22088.2	3325.6	1828.3	1277.6	778.5	640.2	610.3	591.3	585.9	583.2
72.5°	26808.1	19156.0	2476.6	1589.6	1087.7	675.4	566.9	539.8	523.5	515.4	515.4
75°	22272.7	15656.8	1934.0	1264.0	851.7	569.6	485.5	463.8	450.3	444.9	442.1
77.5°	12483.1	8742.5	1388.8	990.1	645.6	461.1	406.9	387.9	374.3	368.9	368.9
80°	3477.5	2498.3	816.5	653.7	439.4	349.9	322.8	309.2	290.2	276.7	284.8
82.5°	1310.2	1082.3	466.6	393.3	279.4	233.3	225.1	214.3	206.2	187.2	187.2
85°	637.4	526.2	298.4	208.9	154.6	122.1	116.6	111.2	105.8	92.2	94.9
87.5°	219.7	233.3	130.2	76.0	46.1	29.8	24.4	13.6	13.6	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)