

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: P192895

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26830.8 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): 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: 25 FT

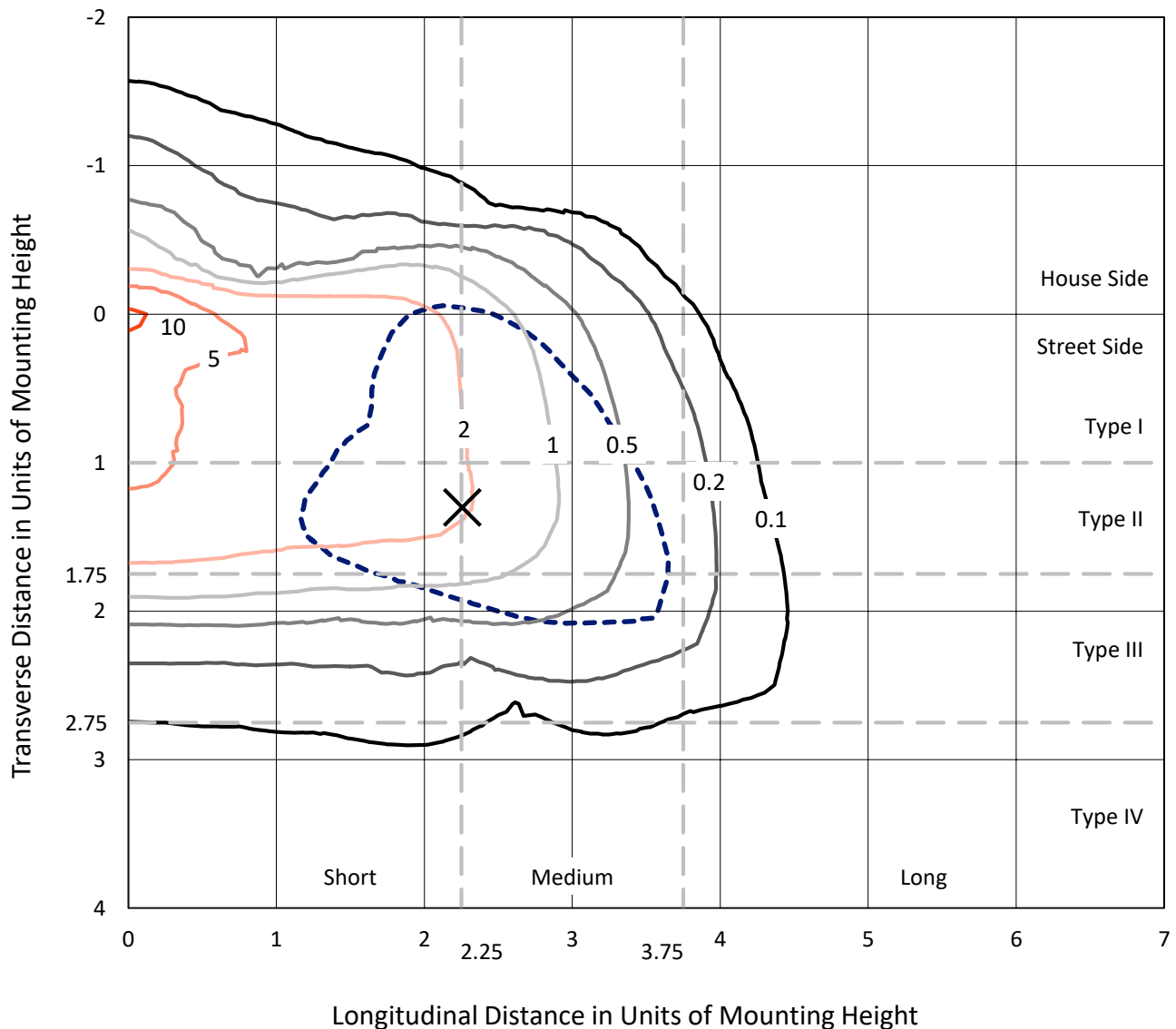


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

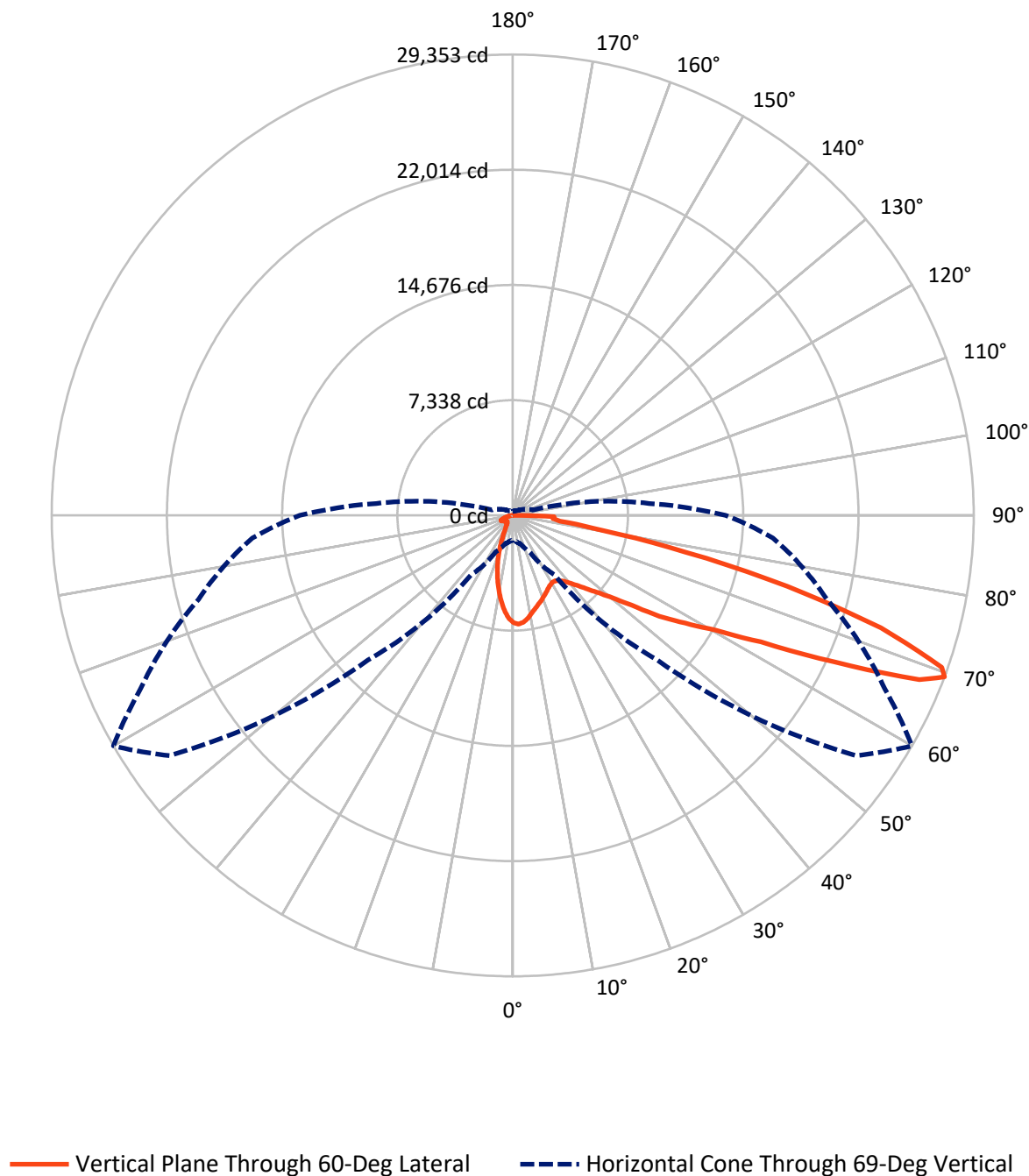


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3817.2	0.0	3817.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	23013.6	0.0	23013.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	26830.8	0.0	26830.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.1	2.2
10°-20°	1231.7	4.6
20°-30°	1569.3	5.8
30°-40°	2157.4	8.0
40°-50°	3500.6	13.0
50°-60°	5614.2	20.9
60°-70°	7472.0	27.8
70°-80°	4034.3	15.0
80°-90°	673.2	2.5
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°	26830.8	100.0
0°-180°	26830.8	100.0

Coefficient of Utilization



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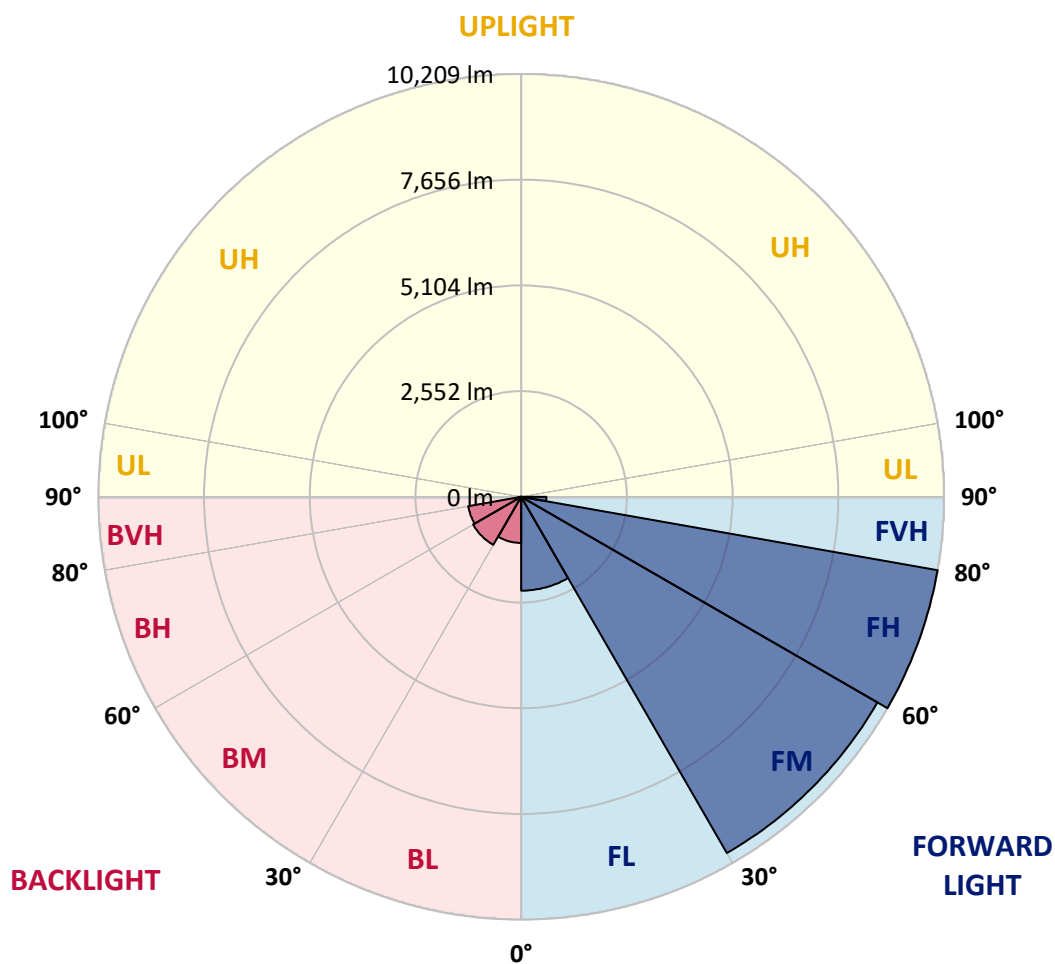
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2265.5	8.4			
FM	(30°-60°)	9931.2	37.0			
FH	(60°-80°)	10208.6	38.0			G4/12000
FVH	(80°-90°)	608.3	2.3			G4/750
BL	(0°-30°)	1113.6	4.2	B3/2500		
BM	(30°-60°)	1341.0	5.0	B2/2500		
BH	(60°-80°)	1297.7	4.8	B3/2500		G3/2500
BVH	(80°-90°)	64.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9
2.5°	6976.9	6992.4	6985.9	6982.1	6993.6	6975.5	6938.0	6926.3	6908.1	6865.5	6792.8
5°	6715.1	6761.7	6759.1	6794.2	6852.4	6868.0	6851.1	6853.8	6820.1	6766.9	6646.4
7.5°	6262.7	6282.2	6292.6	6369.0	6475.2	6560.8	6633.4	6656.7	6641.3	6595.9	6440.3
10°	5796.1	5811.7	5836.3	5925.7	6060.5	6178.5	6315.8	6395.0	6428.6	6420.8	6247.2
12.5°	5395.7	5411.2	5443.7	5544.7	5705.4	5850.7	6050.1	6148.7	6229.0	6277.0	6090.3
15°	5036.7	5070.2	5101.5	5218.1	5398.3	5588.7	5814.2	5938.7	6063.2	6170.8	5951.7
17.5°	4756.7	4790.4	4808.5	4914.8	5106.6	5339.9	5604.4	5750.8	5906.3	6082.6	5814.2
20°	4594.7	4610.2	4602.4	4662.1	4834.4	5081.9	5395.7	5565.4	5753.4	5999.7	5676.9
22.5°	4549.3	4550.5	4522.0	4515.5	4627.0	4835.7	5172.7	5378.9	5609.5	5945.3	5558.9
25°	4659.5	4655.5	4577.9	4514.3	4525.9	4647.8	4957.5	5197.4	5488.9	5933.6	5468.2
27.5°	4904.4	4916.1	4800.8	4681.5	4563.5	4559.6	4794.3	5047.0	5390.5	5986.7	5429.3
30°	5247.8	5267.3	5144.2	4992.6	4771.0	4588.2	4730.7	4957.5	5329.5	6096.7	5422.9
32.5°	5623.8	5644.5	5551.1	5391.7	5101.5	4764.5	4774.8	4965.3	5326.9	6251.0	5466.9
35°	6024.2	6047.6	5999.7	5864.8	5542.0	5089.8	4943.3	5091.1	5411.2	6486.9	5584.9
37.5°	6471.4	6507.7	6520.7	6392.3	6047.6	5518.8	5219.4	5329.5	5601.7	6814.8	5801.3
40°	7115.5	7166.1	7162.2	6978.2	6626.9	6098.1	5645.8	5674.3	5898.5	7252.9	6147.4
42.5°	8349.5	8359.8	8037.1	7636.5	7264.6	6707.3	6148.7	6125.3	6308.1	7807.6	6656.7
45°	9919.0	9876.3	9158.2	8384.4	7930.8	7407.1	6803.2	6689.2	6827.8	8484.2	7294.3
47.5°	11221.6	11123.0	10215.8	9147.8	8635.9	8168.0	7571.7	7372.2	7448.6	9251.5	8118.7
50°	11674.0	11600.0	10848.4	9783.0	9303.3	9096.0	8518.0	8235.4	8256.0	10166.6	9084.4
52.5°	11576.7	11566.3	11064.8	10201.5	9928.1	10070.7	9858.1	9475.7	9273.6	11182.6	10126.3
55°	11347.3	11369.3	11187.9	10688.9	10642.2	11011.5	11609.2	11326.6	10698.0	12207.9	11203.5
57.5°	10550.2	10607.2	11006.4	11301.9	11792.0	12341.4	13019.3	12938.9	12231.2	13316.1	12484.0
60°	8499.9	8632.0	9702.6	11182.6	12975.2	14693.8	14997.2	14810.4	13812.4	14691.2	14175.4
62.5°	5955.5	6093.0	7365.7	9681.8	12780.8	17350.8	18532.9	17728.0	16083.2	16717.0	16364.6
65°	3188.4	3254.5	4226.5	6717.7	10790.0	17899.1	23700.4	22475.6	19678.5	19214.6	18237.3
67.5°	1758.7	1795.1	2167.0	3391.9	6910.7	15761.8	26992.5	27917.8	24172.2	20877.5	17896.4
69°	1590.3	1624.0	1867.7	2568.9	4624.5	13032.2	26671.1	29352.6	26142.3	20712.9	16636.7
70°	1555.3	1586.5	1805.5	2367.9	3743.1	10742.1	25594.0	28985.8	26611.4	20123.2	15537.5
72.5°	1399.8	1433.5	1646.0	2126.8	3198.8	5355.5	20273.5	24507.8	24160.5	17448.0	11785.4
75°	1305.2	1336.2	1696.6	2082.8	3062.6	3389.3	13365.3	18062.4	17760.4	12205.4	6354.7
77.5°	558.7	556.0	786.7	1762.7	3108.0	3281.7	7181.6	11283.8	10294.9	5216.8	1824.8
80°	373.2	366.8	373.2	518.4	2850.1	3299.8	3762.6	5727.5	4326.3	1329.8	899.5
82.5°	321.4	316.2	327.9	316.2	1001.9	3766.5	3198.8	3045.8	2057.0	755.6	445.9
85°	216.5	207.4	282.6	283.8	473.1	3346.5	3603.2	2572.7	1664.2	448.4	220.3
87.5°	103.7	101.1	164.7	200.9	277.4	1359.6	4042.5	2636.2	1678.4	229.5	105.0
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°	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9
2.5°	6770.8	6717.7	6665.8	6603.6	6538.8	6466.2	6429.9	6393.7	6384.6	6374.1	6337.9
5°	6584.2	6509.0	6379.3	6236.8	6086.5	5940.0	5828.6	5758.5	5705.4	5678.2	5630.2
7.5°	6343.0	6232.9	6006.1	5759.8	5507.1	5276.3	5076.8	4951.1	4831.9	4776.2	4712.6
10°	6113.7	5949.0	5596.6	5233.6	4870.7	4522.0	4194.1	3962.2	3756.2	3640.7	3559.1
12.5°	5916.7	5691.1	5202.5	4711.3	4213.6	3717.2	3226.0	2839.7	2517.0	2347.2	2260.3
15°	5724.8	5452.7	4827.9	4204.6	3565.5	2890.2	2244.8	1806.7	1539.8	1433.5	1397.2
17.5°	5551.1	5202.5	4452.1	3693.8	2896.8	2080.2	1508.7	1267.6	1165.1	1130.2	1118.5
20°	5363.2	4949.8	4061.9	3159.9	2199.5	1454.2	1178.2	1071.9	1030.5	1020.1	1014.8
22.5°	5181.7	4700.9	3688.7	2588.4	1579.9	1122.4	1012.3	968.1	961.7	970.8	970.8
25°	5027.6	4478.0	3285.7	1990.8	1160.0	944.9	906.0	895.6	920.2	954.0	960.4
27.5°	4912.2	4295.2	2856.6	1469.7	924.2	821.7	820.4	837.3	898.2	963.0	976.0
30°	4833.1	4121.6	2397.8	1060.3	775.0	723.2	743.9	780.2	869.7	961.7	986.3
32.5°	4792.9	3993.3	1919.4	820.4	663.6	635.2	670.1	714.1	802.3	887.8	920.2
35°	4824.1	3898.7	1468.5	684.3	585.8	563.8	600.1	642.9	694.7	731.0	755.6
37.5°	4940.7	3861.1	1108.1	613.1	532.7	512.0	540.5	565.1	585.8	596.2	607.9
40°	5192.1	3901.2	887.8	576.8	502.9	476.9	488.6	497.6	510.7	521.0	526.2
42.5°	5562.8	4021.9	795.9	562.4	487.3	449.7	447.2	451.0	467.8	487.3	491.2
45°	6081.3	4234.4	789.3	571.5	479.5	427.7	416.1	421.2	447.2	476.9	482.2
47.5°	6743.6	4558.4	841.2	598.7	485.9	416.1	396.6	403.0	435.5	475.8	482.2
50°	7545.9	5010.7	928.0	638.9	514.5	418.7	390.2	394.0	427.7	471.8	478.2
52.5°	8493.3	5652.3	1022.6	677.9	544.3	435.5	395.3	386.2	417.4	456.2	464.1
55°	9547.1	6475.2	1119.8	712.8	560.0	456.2	405.7	375.9	397.9	430.3	436.8
57.5°	10840.4	7626.2	1288.2	746.6	570.4	470.5	416.1	365.5	373.2	396.6	401.7
60°	12591.6	9254.1	1585.2	802.3	593.6	475.8	414.7	356.4	348.6	361.6	364.2
62.5°	14689.9	11022.0	1832.8	872.2	632.5	479.5	407.0	349.9	327.9	327.9	330.5
65°	15935.5	11495.0	1695.2	930.6	664.9	475.8	397.9	343.5	312.4	298.1	299.4
67.5°	14879.2	10109.5	1452.9	942.3	663.6	457.5	383.6	331.8	296.8	274.8	273.4
69°	13555.8	8722.7	1344.0	911.1	632.5	434.2	365.5	318.8	285.1	261.7	260.5
70°	12489.2	7876.4	1272.8	877.5	598.7	417.4	351.3	307.1	276.1	254.0	251.4
72.5°	9080.4	5161.1	1087.4	754.3	493.9	349.9	303.3	269.6	246.3	233.3	230.7
75°	4537.6	2461.3	882.6	611.8	378.5	279.9	248.9	225.5	213.8	211.3	210.0
77.5°	1490.6	1127.5	631.2	456.2	281.3	219.1	200.9	184.0	181.5	189.2	186.7
80°	819.1	655.8	400.6	302.0	191.9	160.7	158.1	149.0	153.0	165.8	163.4
82.5°	417.4	340.9	247.6	181.5	129.6	115.4	125.7	120.5	125.7	137.3	136.1
85°	206.1	186.7	156.8	110.2	85.5	73.9	89.5	93.3	95.9	105.0	105.0
87.5°	119.2	110.2	82.9	51.9	42.7	38.9	51.9	50.6	59.6	64.8	63.5
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)