

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: P454515

Luminaire Tested: **GALN-SA5C-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26135 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

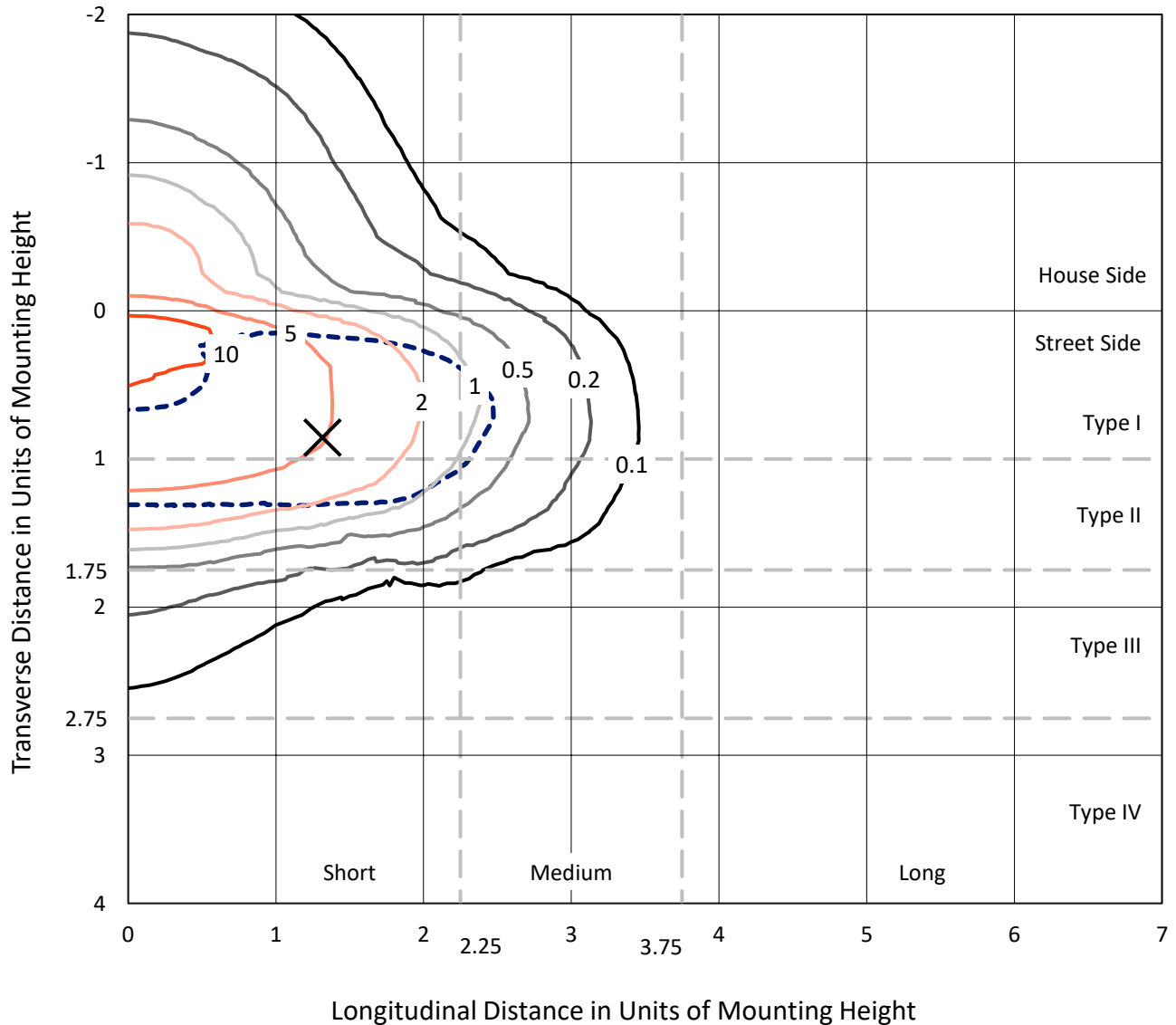
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

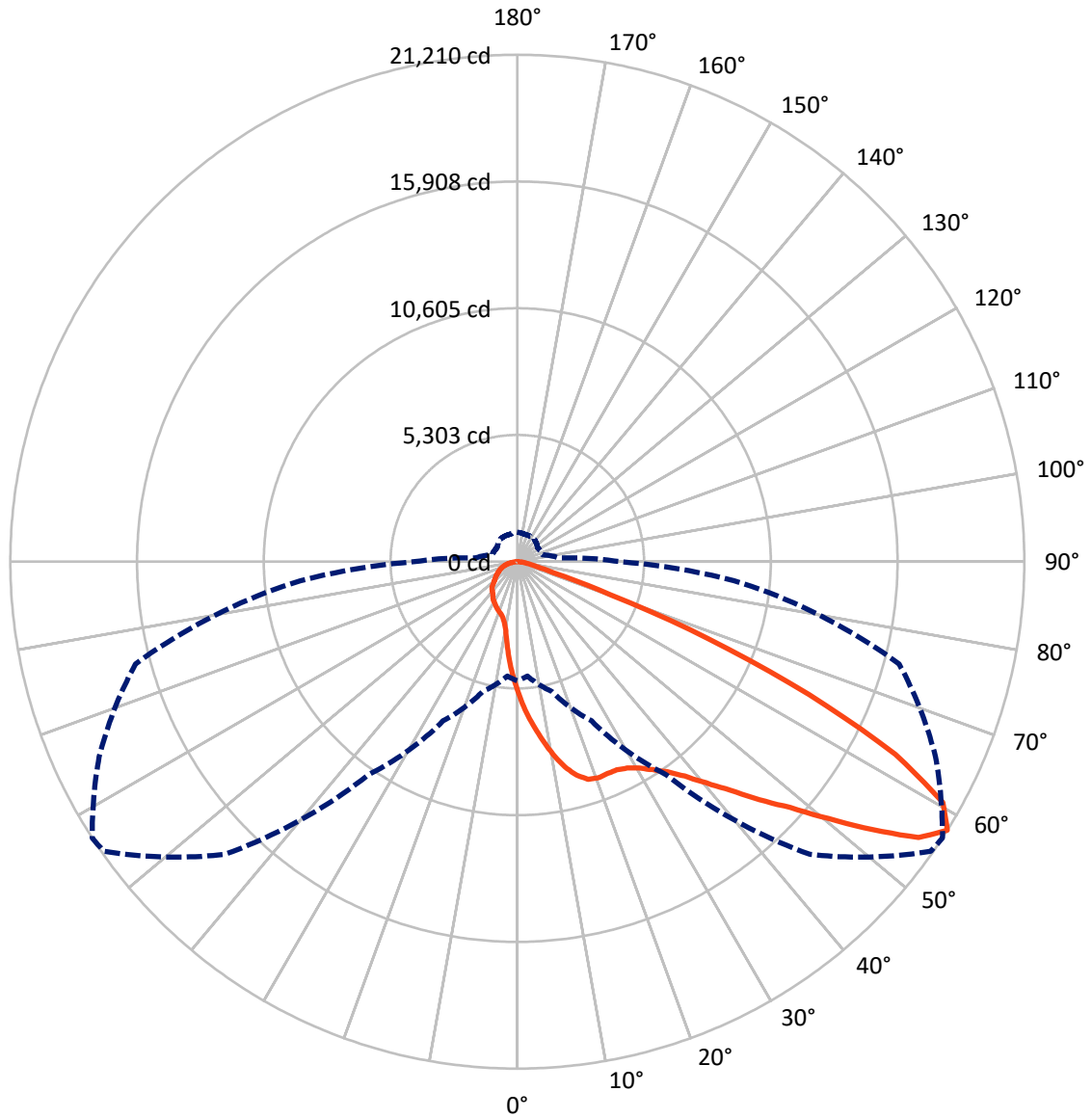
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3974.4	0.0	3974.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	22160.6	0.0	22160.6
	% Fixture	84.8	0.0	84.8
Total	Lumens	26135.0	0.0	26135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.7	2.0
10°-20°	1555.2	6.0
20°-30°	2582.4	9.9
30°-40°	3889.9	14.9
40°-50°	5840.2	22.3
50°-60°	6546.2	25.0
60°-70°	3831.1	14.7
70°-80°	1133.2	4.3
80°-90°	229.0	0.9
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°	26135.0	100.0
0°-180°	26135.0	100.0

Coefficient of Utilization



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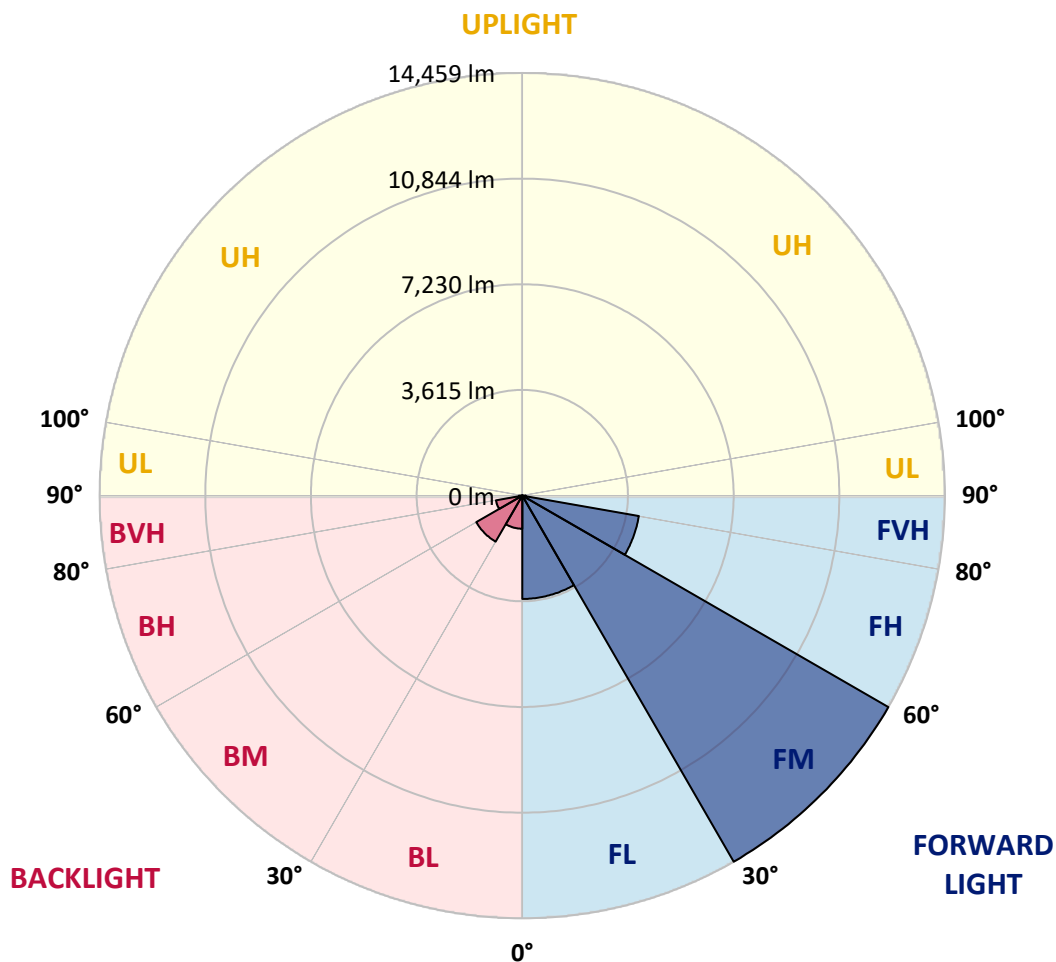
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3532.8	13.5			
FM	(30°-60°)	14459.0	55.3			
FH	(60°-80°)	4049.9	15.5			G2/5000
FVH	(80°-90°)	118.8	0.5			G2/225
BL	(0°-30°)	1132.4	4.3	B3/2500		
BM	(30°-60°)	1817.3	7.0	B2/2500		
BH	(60°-80°)	914.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	110.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7
2.5°	6822.6	6748.2	6689.5	6638.0	6570.8	6389.1	6207.4	6204.5	6060.0	5836.9	5608.0
5°	7934.1	7834.0	7846.9	7686.6	7526.4	7263.2	6878.4	6858.3	6550.7	6133.0	5708.1
7.5°	8658.0	8659.5	8619.4	8527.8	8354.7	8055.7	7619.4	7520.7	7092.9	6459.2	5822.6
10°	8620.8	8659.5	8726.7	8805.4	8858.3	8711.0	8313.2	8193.1	7636.6	6854.0	5949.9
12.5°	8125.8	8185.9	8281.8	8479.2	8798.2	9041.4	8905.5	8808.2	8266.0	7247.4	6090.1
15°	7816.8	7852.6	7905.5	8038.6	8381.9	8964.2	9316.1	9264.6	8859.7	7692.4	6247.5
17.5°	7722.4	7758.2	7775.3	7856.9	8101.5	8698.1	9477.8	9569.3	9386.2	8101.5	6406.3
20°	7816.8	7834.0	7834.0	7882.6	8074.3	8542.1	9470.6	9655.2	9818.2	8592.2	6555.0
22.5°	8064.3	8071.5	8061.5	8078.6	8221.7	8585.1	9403.4	9632.3	10167.3	9008.5	6670.9
25°	8466.3	8477.8	8412.0	8371.9	8476.3	8773.9	9440.6	9650.9	10440.6	9406.2	6748.2
27.5°	8922.7	8937.0	8856.9	8763.9	8812.5	9007.1	9586.5	9775.3	10645.1	9798.2	6796.8
30°	9482.1	9487.8	9353.3	9241.7	9210.2	9354.7	9835.4	10011.4	10899.8	10260.3	6869.8
32.5°	10054.3	10097.2	9924.1	9766.7	9713.8	9758.2	10203.1	10373.3	11203.1	10756.7	6987.1
35°	10832.5	10839.7	10632.3	10440.6	10266.0	10323.3	10673.7	10796.8	11622.2	11330.4	7153.0
37.5°	11803.9	11869.7	11583.6	11226.0	11011.4	10928.4	11243.1	11377.6	12210.2	12034.3	7403.4
40°	12882.6	12906.9	12662.3	12439.1	12047.1	11806.8	12024.2	12170.2	12935.5	12874.0	7693.8
42.5°	13560.7	13613.6	13632.2	13609.4	13314.6	12911.2	12994.2	13062.9	13793.9	13662.3	7991.4
45°	13789.6	13868.3	14134.4	14698.0	14729.5	14331.8	14138.7	14204.5	14729.5	14457.7	8276.1
47.5°	13410.5	13545.0	14035.7	15191.6	16057.1	16087.2	15504.9	15360.4	15582.2	15117.2	8482.1
50°	12430.5	12459.1	13210.2	14884.0	16679.4	17765.3	17163.0	16894.0	16391.9	15605.0	8623.7
52.5°	10914.1	10947.0	11576.5	13454.8	16296.0	18938.4	19102.9	18622.2	17214.5	15984.2	8716.7
55°	8101.5	8291.8	8984.2	10799.6	14479.2	18828.2	20645.1	20371.8	18208.7	16284.6	8862.6
57.5°	4981.4	4806.8	5628.0	7347.6	10889.8	17314.6	21121.5	21210.2	19303.2	16536.4	9107.2
60°	2291.8	2326.2	2665.2	3789.7	6638.0	13545.0	19894.0	20454.8	19908.3	16527.8	9168.8
62.5°	1579.4	1547.9	1462.1	1663.8	3027.2	8566.5	16803.9	17753.8	18695.2	16014.2	8924.1
65°	1412.0	1380.5	1214.6	1158.8	1390.5	3733.9	12215.9	13414.8	15741.0	14718.1	8314.7
67.5°	1319.0	1276.1	1104.4	995.7	992.8	1486.4	7203.1	8646.6	11675.2	12443.4	7204.5
70°	1221.7	1187.4	1017.2	897.0	845.5	934.2	3165.9	4144.5	7580.8	8967.0	5612.3
72.5°	1124.5	1084.4	931.3	802.6	735.3	699.6	1213.2	1578.0	4283.2	5376.2	3440.6
75°	982.8	962.8	832.6	726.7	653.8	565.1	769.7	878.4	2048.6	2469.2	1726.7
77.5°	859.8	838.3	739.6	635.2	582.3	459.2	546.5	596.6	864.1	1001.4	779.7
80°	629.5	650.9	623.7	560.8	519.3	360.5	367.7	409.2	513.6	568.0	476.4
82.5°	399.1	439.2	480.7	432.0	393.4	284.7	254.6	270.4	350.5	372.0	211.7
85°	167.4	170.2	279.0	263.2	224.6	168.8	153.1	161.7	187.4	196.0	98.7
87.5°	64.4	62.9	98.7	91.6	70.1	48.6	48.6	54.4	74.4	68.7	31.5
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°	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7	5490.7
2.5°	5509.3	5407.7	5206.0	4955.6	4772.5	4566.5	4384.8	4254.6	4206.0	4183.1	4140.2
5°	5505.0	5304.7	4886.9	4449.2	4097.3	3736.7	3432.0	3234.6	3217.4	3085.8	3072.9
7.5°	5506.4	5200.3	4535.0	3891.2	3354.8	2985.7	2733.9	2668.1	2589.4	2569.4	2579.4
10°	5510.7	5067.2	4157.3	3339.0	2819.7	2578.0	2483.5	2457.8	2460.6	2469.2	2470.7
12.5°	5516.4	4938.5	3765.4	2919.9	2519.3	2419.2	2409.1	2432.0	2456.3	2474.9	2479.2
15°	5523.6	4791.1	3383.4	2582.2	2369.1	2360.5	2393.4	2432.0	2466.4	2493.5	2497.8
17.5°	5515.0	4619.4	3062.9	2374.8	2286.1	2327.6	2382.0	2430.6	2462.1	2487.8	2490.7
20°	5495.0	4427.7	2753.9	2228.9	2234.6	2301.8	2360.5	2406.3	2440.6	2453.5	2463.5
22.5°	5417.7	4198.8	2485.0	2115.9	2173.1	2266.1	2336.2	2363.4	2324.7	2297.6	2304.7
25°	5286.1	3901.3	2234.6	2024.3	2117.3	2216.0	2287.5	2221.7	2190.3	2178.8	2184.5
27.5°	5121.6	3575.1	2045.8	1928.5	2045.8	2160.2	2140.2	2128.7	2114.4	2095.8	2100.1
30°	4944.2	3256.1	1885.5	1854.1	1968.5	2034.3	2042.9	2061.5	2045.8	2017.2	2028.6
32.5°	4779.7	2955.6	1763.9	1791.1	1914.2	1904.1	1968.5	1990.0	1917.0	1821.2	1825.5
35°	4639.5	2676.7	1672.4	1729.6	1821.2	1825.5	1889.8	1815.4	1736.8	1691.0	1693.8
37.5°	4533.6	2459.2	1612.3	1676.7	1702.4	1756.8	1722.4	1683.8	1673.8	1642.3	1643.8
40°	4470.6	2268.9	1573.7	1635.2	1630.9	1668.1	1557.9	1596.6	1610.9	1600.8	1602.3
42.5°	4407.7	2134.5	1533.6	1578.0	1576.5	1503.6	1479.2	1512.2	1549.3	1553.6	1550.8
45°	4357.6	2030.0	1492.1	1490.7	1519.3	1404.9	1397.7	1417.7	1470.7	1496.4	1495.0
47.5°	4301.8	1942.8	1429.2	1389.1	1397.7	1343.3	1331.9	1340.5	1404.9	1446.3	1457.8
50°	4231.7	1855.5	1350.5	1296.1	1260.4	1286.1	1289.0	1290.4	1354.8	1402.0	1412.0
52.5°	4175.9	1789.7	1260.4	1220.3	1177.4	1234.6	1256.1	1258.9	1297.6	1336.2	1343.3
55°	4208.8	1752.5	1171.7	1143.1	1104.4	1181.7	1223.2	1228.9	1237.5	1266.1	1270.4
57.5°	4307.6	1761.1	1100.1	1062.9	1034.3	1118.7	1188.8	1193.1	1187.4	1221.7	1227.5
60°	4337.6	1756.8	1047.2	974.2	957.1	1051.5	1138.8	1147.3	1145.9	1196.0	1206.0
62.5°	4211.7	1702.4	994.3	899.9	888.4	982.8	1068.7	1103.0	1110.1	1181.7	1194.6
65°	3915.6	1590.8	924.2	821.2	821.2	909.9	1001.4	1048.6	1068.7	1164.5	1178.8
67.5°	3525.0	1459.2	852.6	753.9	751.1	839.8	929.9	978.5	1010.0	1140.2	1148.8
70°	2925.6	1281.8	763.9	681.0	681.0	761.1	842.6	901.3	947.1	1094.4	1094.4
72.5°	2004.3	1065.8	656.6	598.0	599.4	673.8	756.8	822.6	877.0	1002.9	1005.7
75°	1267.5	832.6	539.3	509.3	515.0	585.1	671.0	739.6	848.3	991.4	995.7
77.5°	673.8	585.1	429.2	422.0	429.2	493.6	589.4	683.8	851.2	859.8	845.5
80°	436.3	414.9	339.1	324.7	327.6	397.7	525.0	649.5	683.8	692.4	660.9
82.5°	237.5	263.2	240.3	226.0	226.0	310.4	447.8	516.4	490.7	407.7	389.1
85°	101.6	123.0	124.5	108.7	104.4	191.7	300.4	281.8	261.8	250.4	247.5
87.5°	28.6	40.1	40.1	30.0	22.9	52.9	60.1	17.2	0.0	1.4	2.9
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)