

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: P194833

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-T3R-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30418 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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



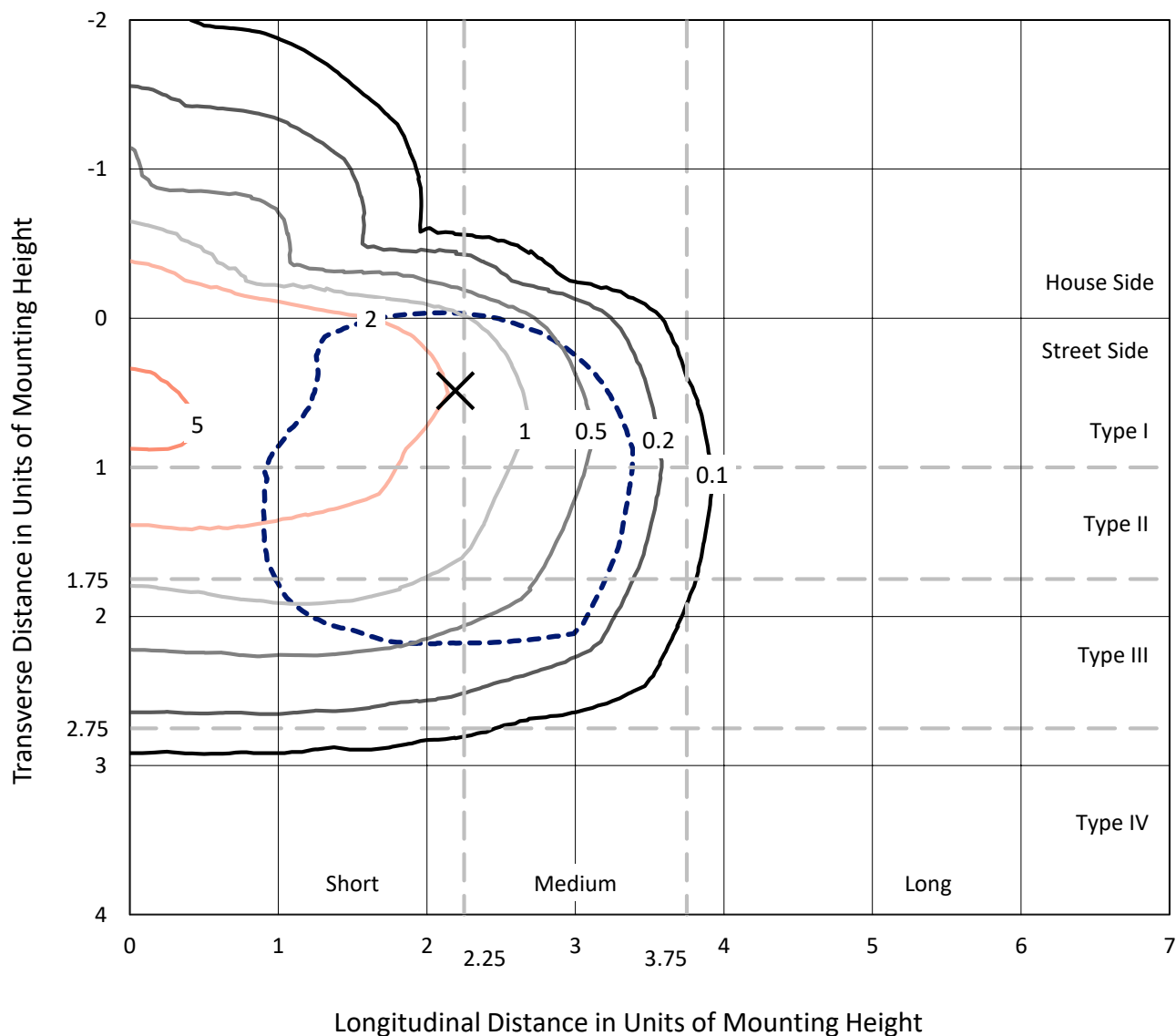
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

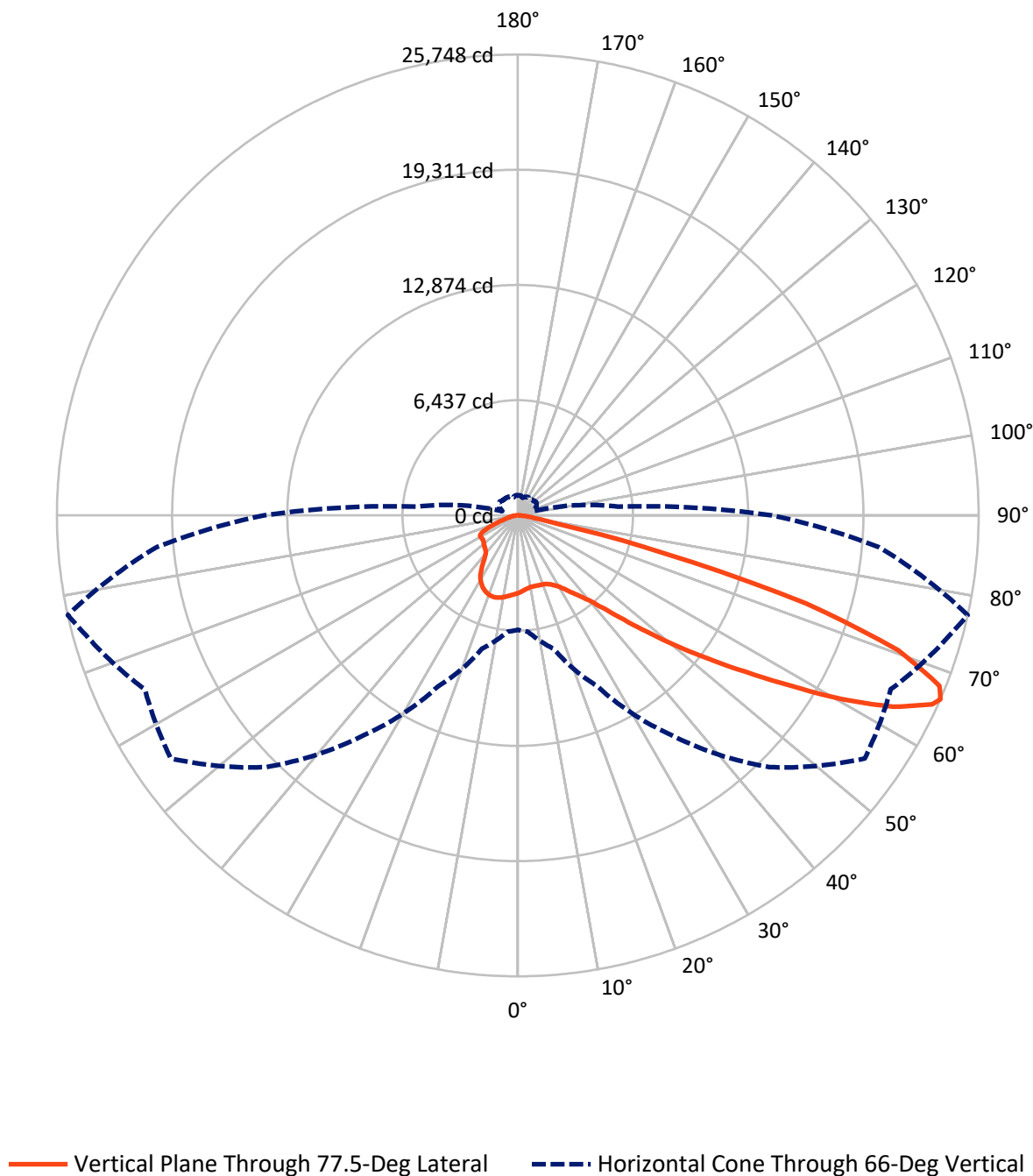


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5196.7	0.0	5196.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	25221.3	0.0	25221.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	30418.0	0.0	30418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.3	1.3
10°-20°	1092.6	3.6
20°-30°	1864.6	6.1
30°-40°	2984.9	9.8
40°-50°	4611.4	15.2
50°-60°	6540.6	21.5
60°-70°	8749.5	28.8
70°-80°	3799.7	12.5
80°-90°	387.5	1.3
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°	30418.0	100.0
0°-180°	30418.0	100.0

Coefficient of Utilization



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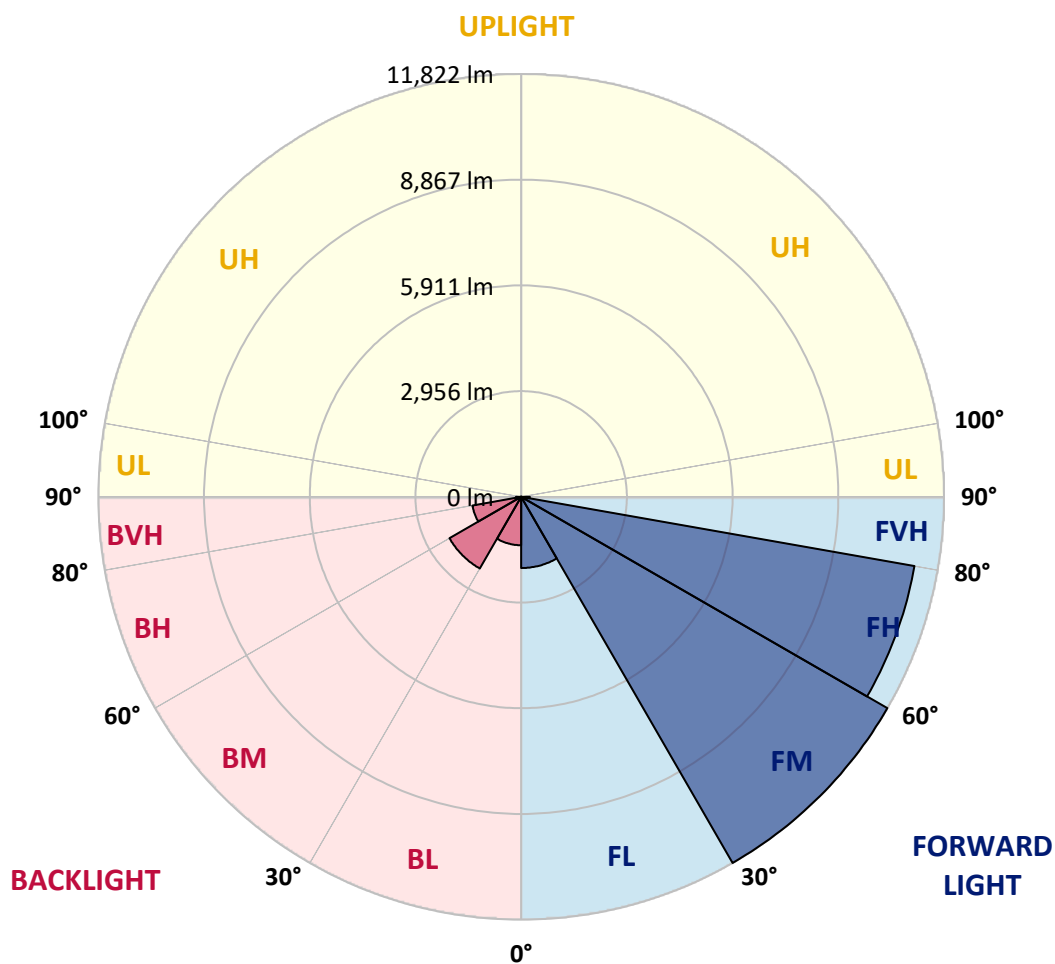
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1991.0	6.5			
FM	(30°-60°)	11822.0	38.9			
FH	(60°-80°)	11165.3	36.7			G4/12000
FVH	(80°-90°)	243.0	0.8			G3/500
BL	(0°-30°)	1353.4	4.4	B3/2500		
BM	(30°-60°)	2314.8	7.6	B2/2500		
BH	(60°-80°)	1384.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	144.5	0.5			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7
2.5°	3834.6	3860.4	3882.0	3902.1	3942.3	4008.5	4084.6	4146.4	4235.5	4252.8	4300.2
5°	3482.4	3482.4	3499.7	3529.9	3584.5	3683.6	3787.1	3925.1	4119.1	4165.1	4291.6
7.5°	3311.4	3312.8	3322.9	3348.8	3396.2	3486.7	3600.3	3762.7	4025.7	4101.9	4317.5
10°	3374.6	3360.3	3338.7	3325.8	3333.0	3386.1	3493.9	3675.0	3968.2	4065.9	4375.0
12.5°	3728.2	3700.9	3626.2	3527.0	3432.1	3393.3	3456.6	3633.3	3943.8	4057.3	4451.1
15°	4306.0	4294.5	4155.1	3949.5	3719.6	3527.0	3483.9	3617.5	3946.7	4067.4	4541.7
17.5°	5030.3	5014.5	4830.6	4531.6	4156.5	3781.4	3580.2	3630.5	3956.7	4084.6	4629.3
20°	5761.9	5713.0	5514.7	5158.2	4676.8	4127.7	3739.7	3663.5	3969.7	4103.3	4721.3
22.5°	6308.0	6267.8	6089.6	5743.2	5188.4	4528.7	3953.8	3721.0	4011.3	4157.9	4834.9
25°	6788.1	6790.9	6614.2	6279.3	5705.8	4954.2	4229.8	3874.8	4117.7	4270.0	4990.1
27.5°	7381.7	7347.2	7181.9	6849.9	6217.5	5383.9	4563.2	4086.1	4275.8	4429.6	5194.2
30°	8091.6	8067.2	7876.1	7499.5	6785.2	5845.2	4944.1	4331.8	4479.9	4639.4	5461.5
32.5°	8926.7	8915.2	8716.8	8232.5	7440.6	6388.5	5391.1	4656.7	4784.6	4949.8	5845.2
35°	9906.9	9908.3	9674.0	9092.0	8157.8	7020.9	5898.4	5074.9	5155.4	5327.8	6302.3
37.5°	10510.5	10583.8	10496.1	9902.6	8969.8	7728.0	6556.7	5629.7	5577.9	5751.8	6792.4
40°	10639.9	10729.0	11006.4	10704.5	9878.1	8507.0	7140.2	6162.9	6098.2	6310.9	7423.3
42.5°	10458.8	10582.4	11168.8	11381.5	10842.5	9467.1	7924.9	6954.8	6872.9	7158.9	8208.1
45°	10351.0	10443.0	11121.3	11733.6	11679.0	10552.2	8923.8	7949.4	7919.2	8294.3	9113.5
47.5°	10164.1	10247.5	10900.0	11815.5	12170.5	11546.8	10123.9	9165.3	9224.2	9715.7	10135.4
50°	10264.8	10299.2	10652.8	11607.1	12312.8	12275.4	11464.8	10573.8	10775.0	11388.7	11292.4
52.5°	10250.4	10339.5	10624.1	11265.1	12331.5	12725.3	12785.7	12144.7	12568.6	13272.9	12575.8
55°	8287.1	8451.0	10286.3	11178.8	12397.6	13166.5	13961.3	13800.4	14590.8	15411.5	14024.6
57.5°	7913.4	8016.9	9034.5	11359.9	12748.3	14008.8	15269.2	15622.8	16945.0	17897.9	15789.5
60°	7840.1	7968.0	9021.5	11581.3	13459.7	15381.3	17208.0	17828.9	19809.5	20852.9	17836.1
62.5°	7611.6	7749.6	8936.7	11552.5	14470.1	17279.9	19690.2	20174.5	22525.8	23540.5	19547.9
65°	6887.2	7016.6	8245.4	11088.3	15151.4	19306.4	22627.9	22324.6	24670.2	25433.4	20401.6
66°	6391.4	6517.9	7700.7	10542.1	14993.3	19881.3	23668.4	22990.1	25150.2	25748.1	20234.9
67.5°	5484.5	5583.7	6642.9	9319.1	14152.5	20042.3	24543.7	23490.2	25200.5	25411.8	19282.0
70°	3465.2	3493.9	4317.5	6433.1	10713.2	17382.0	23211.4	22248.4	23122.3	22550.3	16164.6
72.5°	1503.4	1493.3	2072.5	3272.6	6065.1	11663.2	18776.1	18357.8	18137.9	16832.9	11315.4
75°	836.5	848.0	1076.5	1519.2	2464.9	5728.8	12282.6	11753.7	9924.1	8468.2	5130.9
77.5°	671.2	687.0	892.5	1077.9	1106.7	1997.8	5747.5	4676.8	2815.5	2259.3	1425.7
80°	530.3	559.1	779.0	839.3	745.9	823.5	1856.9	1484.7	1113.9	1021.9	738.7
82.5°	419.7	439.8	668.3	635.3	521.7	554.8	889.7	866.7	724.4	659.7	426.9
85°	301.8	339.2	549.0	478.6	342.1	373.7	590.7	566.3	415.4	339.2	188.3
87.5°	123.6	161.0	388.1	317.6	191.2	173.9	294.6	277.4	196.9	143.7	93.4
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°	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7	4334.7
2.5°	4330.4	4364.9	4409.4	4436.8	4451.1	4461.2	4477.0	4475.6	4479.9	4481.3	4487.1
5°	4359.1	4416.6	4481.3	4498.6	4498.6	4482.7	4466.9	4441.1	4431.0	4428.1	4431.0
7.5°	4433.9	4497.1	4553.2	4533.0	4489.9	4426.7	4344.8	4272.9	4234.1	4221.2	4218.3
10°	4528.7	4604.9	4627.9	4551.7	4425.3	4272.9	4110.5	3992.6	3925.1	3906.4	3900.7
12.5°	4643.7	4715.6	4684.0	4523.0	4288.7	4043.0	3818.7	3630.5	3489.6	3445.1	3442.2
15°	4770.2	4826.2	4715.6	4433.9	4084.6	3722.4	3322.9	2998.1	2822.7	2766.7	2762.4
17.5°	4888.0	4916.8	4696.9	4278.7	3784.2	3197.9	2667.5	2417.4	2357.1	2371.4	2374.3
20°	4988.7	4988.7	4633.7	4055.9	3311.4	2506.5	2171.7	2167.4	2210.5	2253.6	2262.2
22.5°	5099.3	5033.2	4523.0	3741.1	2641.6	2050.9	2002.1	2042.3	2091.2	2138.6	2145.8
25°	5235.9	5069.1	4369.2	3264.0	2076.8	1862.7	1881.3	1914.4	1938.8	1969.0	1973.3
27.5°	5388.2	5115.1	4166.6	2607.1	1802.3	1744.8	1759.2	1770.7	1767.8	1779.3	1782.2
30°	5570.7	5168.3	3889.2	2038.0	1688.8	1644.2	1618.3	1608.3	1608.3	1627.0	1634.1
32.5°	5815.1	5247.4	3491.1	1746.2	1634.1	1572.3	1489.0	1451.6	1466.0	1529.2	1543.6
35°	6083.8	5332.2	2952.1	1647.1	1622.6	1539.3	1409.9	1340.9	1342.4	1401.3	1420.0
37.5°	6377.0	5439.9	2361.4	1628.4	1648.5	1540.7	1368.3	1273.4	1234.6	1234.6	1241.8
40°	6752.1	5550.6	1911.5	1641.3	1703.1	1558.0	1346.7	1220.2	1111.0	1113.9	1119.6
42.5°	7240.8	5645.5	1670.1	1668.6	1769.2	1581.0	1345.3	1149.8	1054.9	1119.6	1178.5
45°	7784.1	5692.9	1563.7	1693.1	1822.4	1595.3	1322.3	1138.3	1062.1	1254.7	1366.8
47.5°	8409.3	5665.6	1504.8	1701.7	1835.4	1595.3	1296.4	1165.6	1112.4	1453.0	1583.8
50°	9094.8	5586.5	1447.3	1684.4	1831.0	1592.5	1320.8	1192.9	1131.1	1487.5	1578.1
52.5°	9901.1	5520.4	1386.9	1647.1	1800.9	1576.7	1349.6	1181.4	1072.2	1352.4	1415.7
55°	10821.0	5539.1	1319.4	1593.9	1753.4	1546.5	1339.5	1135.4	1010.4	1191.5	1230.3
57.5°	11996.6	5761.9	1238.9	1526.3	1688.8	1496.2	1303.6	1113.9	991.7	1080.8	1103.8
60°	13308.8	6149.9	1138.3	1458.8	1608.3	1415.7	1276.3	1123.9	1000.3	1072.2	1083.7
62.5°	14271.8	6375.6	1052.1	1359.6	1499.0	1326.6	1241.8	1136.9	1023.3	1102.4	1099.5
65°	14533.3	6004.8	944.3	1214.5	1351.0	1233.2	1198.7	1151.2	1033.4	1126.8	1113.9
66°	14166.9	5605.2	896.8	1146.9	1276.3	1187.2	1177.1	1149.8	1029.1	1129.7	1108.1
67.5°	13277.2	4786.0	814.9	1047.7	1157.0	1118.2	1142.6	1136.9	1017.6	1126.8	1096.6
70°	10828.2	3265.4	697.1	872.4	962.9	984.5	1076.5	1090.9	980.2	1076.5	1010.4
72.5°	7565.6	1989.1	616.6	676.9	779.0	839.3	985.9	1027.6	929.9	940.0	876.7
75°	3656.3	1056.4	559.1	524.6	605.1	701.4	876.7	941.4	850.8	786.2	763.2
77.5°	1139.7	645.3	474.3	422.5	474.3	566.3	733.0	825.0	757.4	658.3	649.6
80°	612.3	474.3	365.1	339.2	375.1	444.1	576.3	688.4	651.1	590.7	527.5
82.5°	403.9	307.6	270.2	263.0	286.0	339.2	428.3	570.6	570.6	505.9	367.9
85°	208.4	188.3	185.4	185.4	199.8	225.6	291.8	439.8	468.5	267.3	221.3
87.5°	103.5	107.8	100.6	104.9	112.1	110.7	139.4	221.3	264.5	162.4	135.1
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)