

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: P194513

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194513
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-05-LED-E1-SL3-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA 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: 29753 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-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

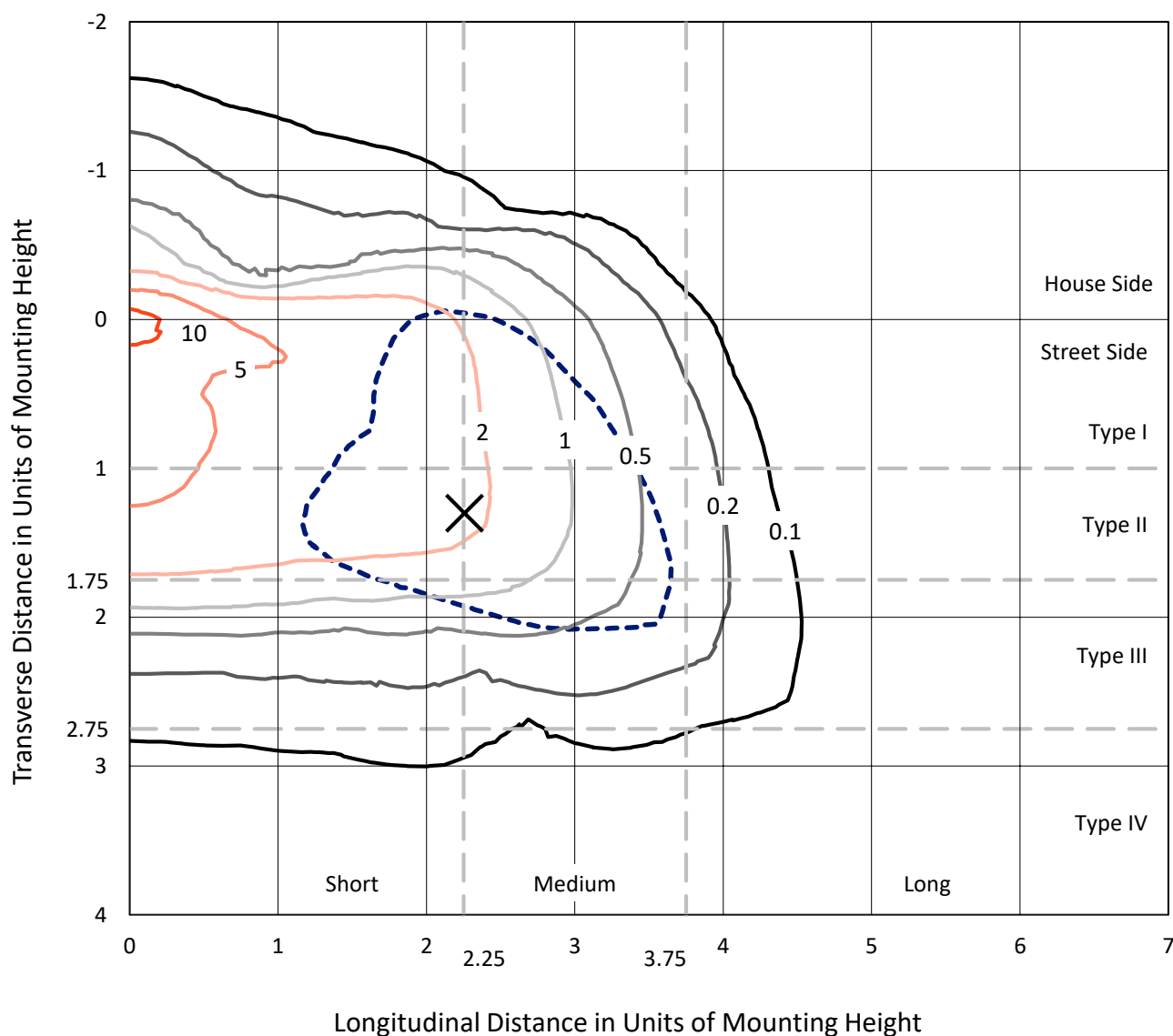


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

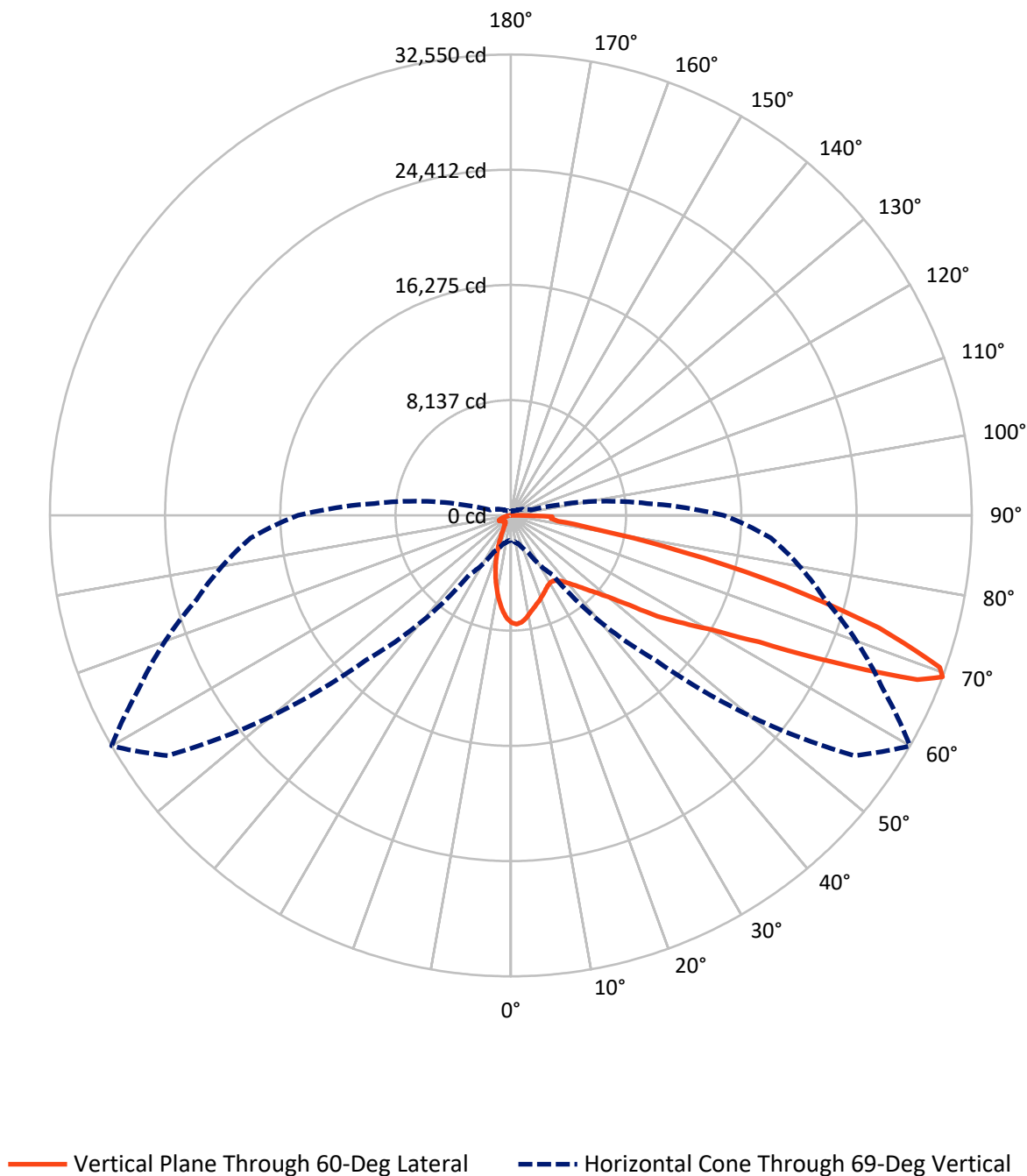


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4232.9	0.0	4232.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	25520.1	0.0	25520.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	29753.0	0.0	29753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.0	2.2
10°-20°	1365.8	4.6
20°-30°	1740.3	5.8
30°-40°	2392.4	8.0
40°-50°	3881.9	13.0
50°-60°	6225.6	20.9
60°-70°	8285.8	27.8
70°-80°	4473.7	15.0
80°-90°	746.5	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°	29753.0	100.0
0°-180°	29753.0	100.0

Coefficient of Utilization



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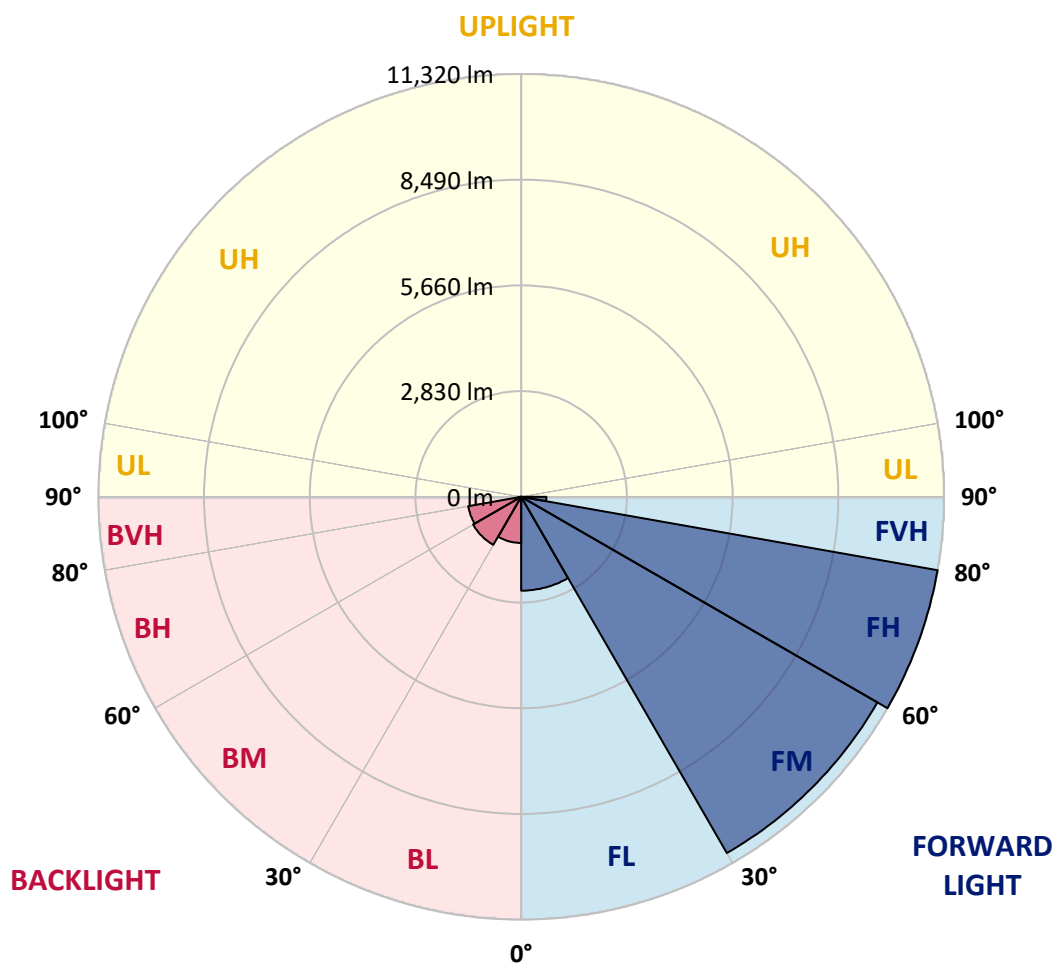
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2512.2	8.4			
FM	(30°-60°)	11012.8	37.0			
FH	(60°-80°)	11320.4	38.0			G4/12000
FVH	(80°-90°)	674.6	2.3			G4/750
BL	(0°-30°)	1234.9	4.2	B3/2500		
BM	(30°-60°)	1487.1	5.0	B2/2500		
BH	(60°-80°)	1439.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	71.9	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°	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5
2.5°	7736.7	7754.0	7746.8	7742.5	7755.4	7735.3	7693.6	7680.7	7660.6	7613.1	7532.6
5°	7446.4	7498.2	7495.3	7534.1	7598.8	7616.0	7597.3	7600.2	7562.8	7503.9	7370.2
7.5°	6944.8	6966.4	6977.9	7062.7	7180.5	7275.4	7355.9	7381.7	7364.5	7314.2	7141.7
10°	6427.4	6444.6	6472.0	6571.1	6720.6	6851.4	7003.7	7091.4	7128.8	7120.2	6927.6
12.5°	5983.3	6000.5	6036.5	6148.6	6326.8	6487.8	6709.1	6818.3	6907.4	6960.6	6753.7
15°	5585.2	5622.5	5657.0	5786.4	5986.2	6197.4	6447.5	6585.5	6723.5	6842.8	6599.9
17.5°	5274.7	5312.1	5332.2	5450.1	5662.8	5921.5	6214.7	6377.1	6549.6	6745.0	6447.5
20°	5095.1	5112.3	5103.7	5169.8	5361.0	5635.5	5983.3	6171.6	6380.0	6653.0	6295.2
22.5°	5044.8	5046.2	5014.6	5007.4	5131.0	5362.4	5736.1	5964.6	6220.4	6592.7	6164.4
25°	5166.9	5162.6	5076.4	5006.0	5018.9	5154.0	5497.5	5763.4	6086.8	6579.8	6063.8
27.5°	5438.6	5451.5	5323.6	5191.4	5060.6	5056.3	5316.4	5596.7	5977.5	6638.7	6020.7
30°	5819.4	5841.0	5704.5	5536.3	5290.5	5087.9	5246.0	5497.5	5910.0	6760.8	6013.5
32.5°	6236.2	6259.2	6155.8	5979.0	5657.0	5283.3	5294.8	5506.1	5907.1	6931.9	6062.3
35°	6680.4	6706.2	6653.0	6503.6	6145.7	5644.1	5481.7	5645.5	6000.5	7193.5	6193.1
37.5°	7176.2	7216.5	7230.8	7088.5	6706.2	6119.8	5787.8	5910.0	6211.8	7557.1	6433.2
40°	7890.5	7946.6	7942.3	7738.2	7348.7	6762.3	6260.7	6292.3	6540.9	8042.9	6816.9
42.5°	9258.8	9270.3	8912.4	8468.3	8055.8	7437.8	6818.3	6792.5	6995.1	8658.0	7381.7
45°	10999.3	10951.9	10155.6	9297.6	8794.6	8213.9	7544.1	7417.7	7571.5	9408.3	8088.9
47.5°	12443.7	12334.5	11328.4	10144.1	9576.4	9057.6	8396.4	8175.1	8259.9	10259.1	9003.0
50°	12945.3	12863.4	12029.8	10848.4	10316.6	10086.7	9445.6	9132.3	9155.3	11273.8	10073.7
52.5°	12837.6	12826.1	12269.8	11312.6	11009.4	11167.5	10931.8	10507.8	10283.6	12400.6	11229.3
55°	12583.2	12607.6	12406.4	11853.0	11801.3	12210.9	12873.5	12560.2	11863.1	13537.5	12423.6
57.5°	11699.2	11762.5	12205.2	12532.9	13076.1	13685.5	14437.2	14348.1	13563.4	14766.4	13843.6
60°	9425.5	9572.1	10759.3	12400.6	14388.4	16294.2	16630.5	16423.5	15316.8	16291.3	15719.2
62.5°	6604.2	6756.5	8167.9	10736.3	14172.8	19240.5	20551.3	19658.8	17834.9	18537.7	18146.8
65°	3535.6	3608.9	4686.9	7449.3	11965.1	19848.5	26281.6	24923.4	21821.8	21307.3	20223.6
67.5°	1950.4	1990.6	2403.1	3761.3	7663.4	17478.4	29932.3	30958.5	26804.8	23151.3	19845.6
69°	1763.5	1800.9	2071.1	2848.6	5128.1	14451.6	29575.8	32549.5	28989.4	22968.8	18448.6
70°	1724.7	1759.2	2002.1	2625.9	4150.8	11912.0	28381.5	32142.8	29509.7	22314.8	17229.8
72.5°	1552.2	1589.6	1825.3	2358.5	3547.1	5938.7	22481.5	27177.0	26791.9	19348.3	13069.0
75°	1447.3	1481.8	1881.4	2309.7	3396.2	3758.4	14821.0	20029.6	19694.7	13534.6	7046.9
77.5°	619.5	616.6	872.4	1954.7	3446.5	3639.1	7963.8	12512.7	11416.1	5784.9	2023.7
80°	413.9	406.7	413.9	574.9	3160.5	3659.2	4172.3	6351.2	4797.6	1474.6	997.5
82.5°	356.4	350.7	363.6	350.7	1111.0	4176.7	3547.1	3377.5	2280.9	837.9	494.4
85°	240.0	230.0	313.3	314.8	524.6	3711.0	3995.6	2852.9	1845.4	497.3	244.3
87.5°	115.0	112.1	182.5	222.8	307.6	1507.7	4482.8	2923.4	1861.2	254.4	116.4
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°	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5	7581.5
2.5°	7508.2	7449.3	7391.8	7322.8	7250.9	7170.5	7130.2	7090.0	7079.9	7068.4	7028.2
5°	7301.3	7217.9	7074.2	6916.1	6749.3	6586.9	6463.3	6385.7	6326.8	6296.6	6243.4
7.5°	7033.9	6911.8	6660.2	6387.2	6106.9	5851.1	5629.7	5490.3	5358.1	5296.3	5225.9
10°	6779.5	6597.0	6206.1	5803.6	5401.2	5014.6	4651.0	4393.7	4165.2	4037.2	3946.7
12.5°	6561.1	6311.0	5769.1	5224.4	4672.5	4122.0	3577.3	3149.0	2791.1	2602.9	2506.6
15°	6348.4	6046.5	5353.8	4662.5	3953.9	3205.1	2489.3	2003.5	1707.5	1589.6	1549.4
17.5°	6155.8	5769.1	4937.0	4096.2	3212.3	2306.8	1673.0	1405.6	1292.1	1253.3	1240.4
20°	5947.4	5488.9	4504.4	3504.0	2439.0	1612.6	1306.5	1188.6	1142.6	1131.1	1125.4
22.5°	5746.1	5212.9	4090.4	2870.2	1752.0	1244.7	1122.5	1073.6	1066.4	1076.5	1076.5
25°	5575.1	4965.7	3643.4	2207.6	1286.3	1047.8	1004.6	993.1	1020.5	1057.8	1065.0
27.5°	5447.2	4763.1	3167.7	1629.8	1024.8	911.2	909.8	928.5	996.0	1067.9	1082.3
30°	5359.5	4570.5	2658.9	1175.7	859.5	802.0	825.0	865.2	964.4	1066.4	1093.8
32.5°	5315.0	4428.2	2128.6	909.8	735.9	704.3	743.1	791.9	889.7	984.5	1020.5
35°	5349.5	4323.3	1628.4	758.9	649.6	625.2	665.4	712.9	770.4	810.6	837.9
37.5°	5478.8	4281.6	1228.9	679.8	590.7	567.7	599.3	626.6	649.6	661.1	674.1
40°	5757.6	4326.1	984.5	639.6	557.7	528.9	541.8	551.9	566.3	577.8	583.5
42.5°	6168.7	4459.8	882.5	623.8	540.4	498.7	495.9	500.2	518.8	540.4	544.7
45°	6743.6	4695.5	875.3	633.8	531.8	474.3	461.4	467.1	495.9	528.9	534.7
47.5°	7478.0	5054.8	932.8	664.0	539.0	461.4	439.8	447.0	482.9	527.5	534.7
50°	8367.7	5556.4	1029.1	708.6	570.6	464.2	432.6	436.9	474.3	523.2	530.3
52.5°	9418.3	6267.9	1134.0	751.7	603.6	482.9	438.4	428.3	462.8	505.9	514.5
55°	10586.8	7180.5	1241.8	790.5	620.9	505.9	449.9	416.8	441.2	477.2	484.4
57.5°	12021.2	8456.8	1428.6	827.9	632.4	521.7	461.4	405.3	413.9	439.8	445.5
60°	13962.9	10262.0	1757.8	889.7	658.3	527.5	459.9	395.2	386.6	401.0	403.9
62.5°	16289.8	12222.4	2032.3	967.3	701.4	531.8	451.3	388.1	363.6	363.6	366.5
65°	17671.0	12747.0	1879.9	1031.9	737.3	527.5	441.2	380.9	346.4	330.6	332.0
67.5°	16499.7	11210.6	1611.2	1044.9	735.9	507.4	425.4	367.9	329.1	304.7	303.3
69°	15032.2	9672.7	1490.4	1010.4	701.4	481.5	405.3	353.6	316.2	290.3	288.9
70°	13849.4	8734.2	1411.4	973.0	664.0	462.8	389.5	340.6	306.1	281.7	278.8
72.5°	10069.4	5723.1	1205.9	836.5	547.6	388.1	336.3	298.9	273.1	258.7	255.8
75°	5031.8	2729.3	978.8	678.4	419.7	310.4	276.0	250.1	237.1	234.3	232.8
77.5°	1652.8	1250.4	699.9	505.9	311.9	242.9	222.8	204.1	201.2	209.8	207.0
80°	908.3	727.3	444.1	334.9	212.7	178.2	175.3	165.3	169.6	184.0	181.1
82.5°	462.8	378.0	274.5	201.2	143.7	127.9	139.4	133.7	139.4	152.3	150.9
85°	228.5	207.0	173.9	122.2	94.9	81.9	99.2	103.5	106.4	116.4	116.4
87.5°	132.2	122.2	92.0	57.5	47.4	43.1	57.5	56.1	66.1	71.9	70.4
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)