

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: P383365

Luminaire Tested: **GLEON-SA6D-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41078.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

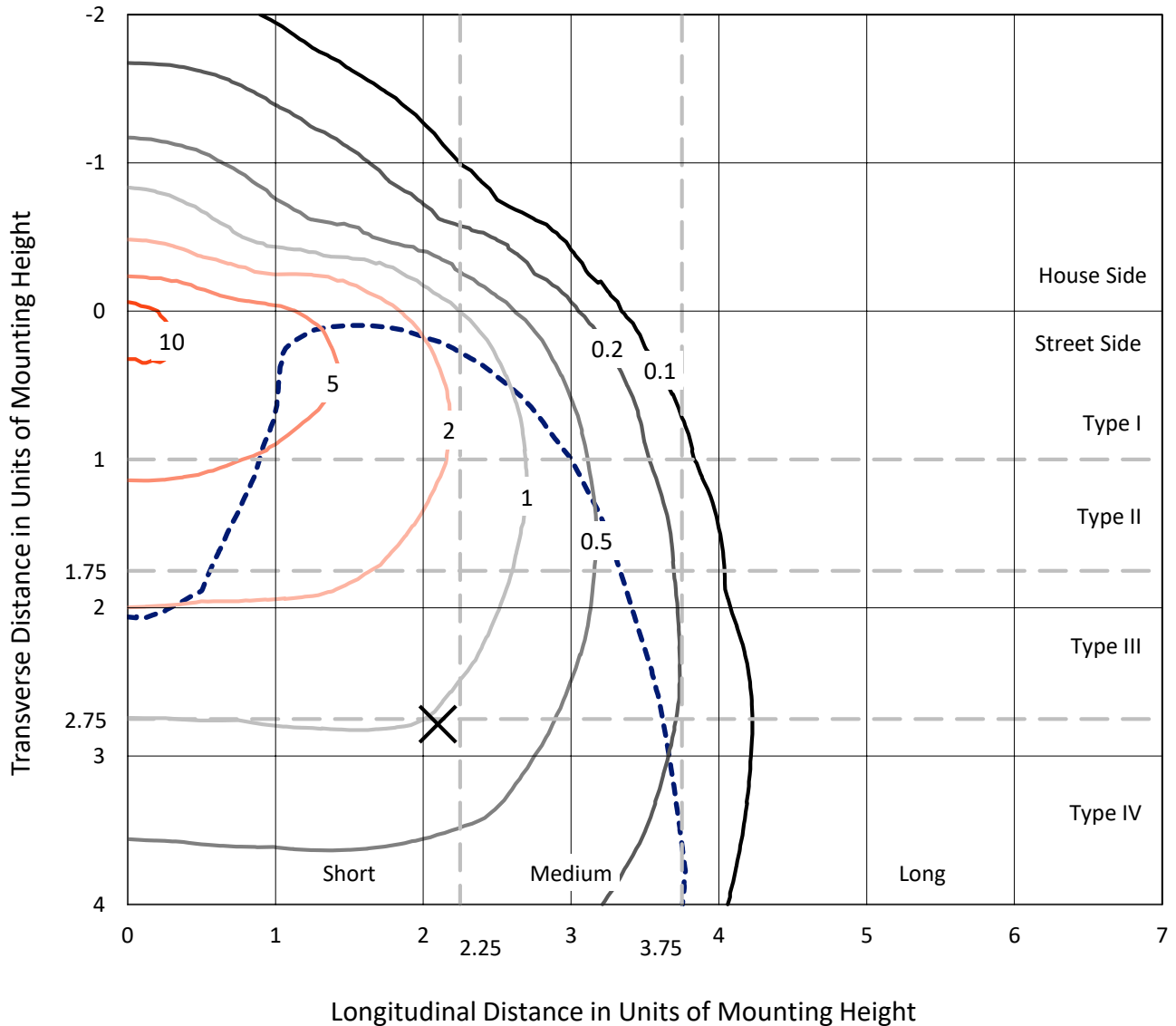
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

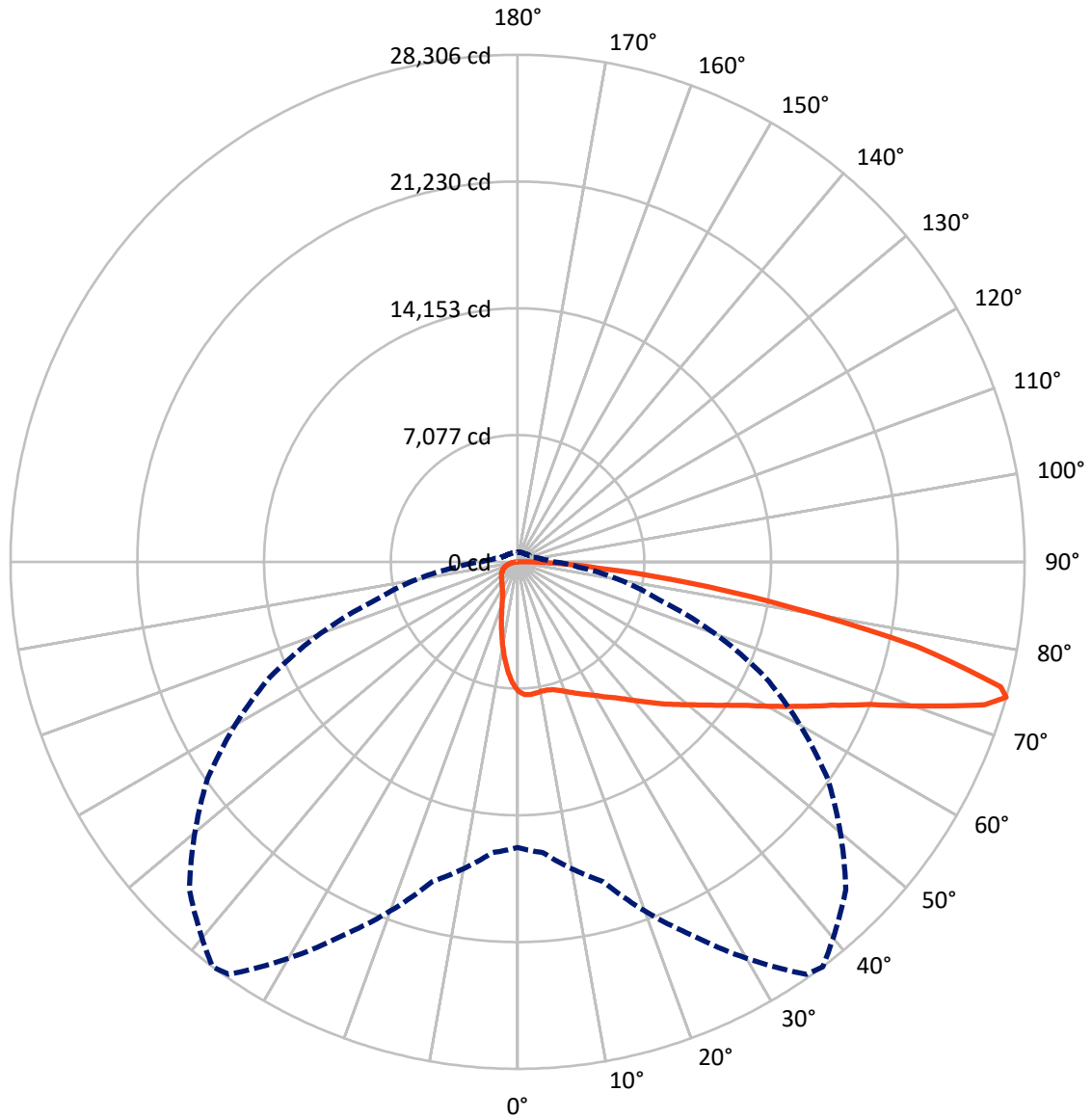
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5652.1	0.0	5652.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	35426.4	0.0	35426.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	41078.5	0.0	41078.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.4	1.6
10°-20°	1633.8	4.0
20°-30°	2517.3	6.1
30°-40°	3660.5	8.9
40°-50°	5387.7	13.1
50°-60°	7566.0	18.4
60°-70°	9576.3	23.3
70°-80°	8432.3	20.5
80°-90°	1667.2	4.1
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°	41078.5	100.0
0°-180°	41078.5	100.0

Coefficient of Utilization



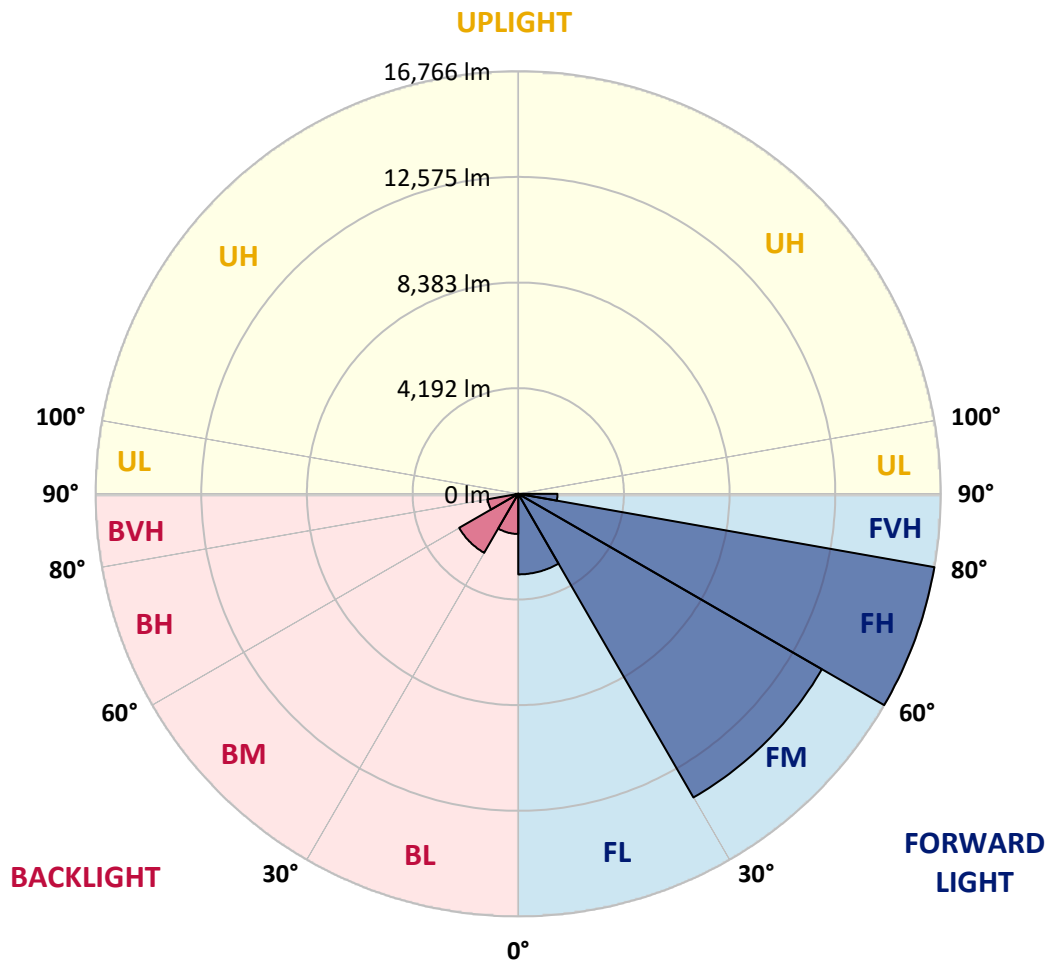
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3196.4	7.8			
FM (30°-60°)	13909.5	33.9			
FH (60°-80°)	16766.1	40.8			G5
FVH (80°-90°)	1554.3	3.8			G5
BL (0°-30°)	1592.1	3.9	B3/2500		
BM (30°-60°)	2704.8	6.6	B3/5000		
BH (60°-80°)	1242.4	3.0	B3/2500		G3/2500
BVH (80°-90°)	112.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8
2.5°	7485.3	7486.8	7485.3	7473.7	7446.2	7423.0	7404.3	7376.7	7316.0	7269.7	7200.2
5°	7556.2	7547.5	7541.7	7520.0	7476.6	7450.6	7414.4	7362.3	7262.4	7169.8	7057.0
7.5°	7522.9	7512.8	7499.8	7473.7	7424.5	7402.8	7352.1	7284.1	7164.1	7042.5	6880.4
10°	7420.1	7417.3	7411.5	7405.7	7363.8	7346.4	7300.1	7227.7	7109.1	6961.5	6772.0
12.5°	7305.8	7313.1	7336.2	7366.7	7347.9	7339.2	7310.2	7261.0	7139.5	6980.3	6751.7
15°	7233.6	7253.8	7316.0	7395.6	7411.5	7408.6	7401.3	7369.6	7240.7	7064.2	6798.0
17.5°	7209.0	7242.2	7360.9	7492.5	7538.8	7549.0	7551.9	7496.9	7353.6	7167.0	6845.8
20°	7253.8	7295.8	7469.4	7650.2	7724.0	7729.9	7716.8	7621.4	7460.7	7255.3	6871.7
22.5°	7389.8	7427.4	7644.5	7848.5	7932.4	7941.1	7902.0	7757.4	7573.6	7359.4	6908.0
25°	7651.7	7698.0	7915.1	8119.1	8162.5	8163.9	8107.5	7928.1	7721.1	7505.6	6986.0
27.5°	7993.2	8039.5	8234.9	8434.5	8411.4	8398.4	8321.7	8142.2	7913.6	7706.7	7125.0
30°	8373.8	8424.4	8609.6	8751.4	8696.5	8670.4	8608.2	8376.7	8181.3	7981.6	7337.7
32.5°	8767.4	8813.7	8975.7	9072.6	9003.2	8991.6	8897.6	8686.3	8530.0	8401.3	7682.1
35°	9171.1	9204.3	9363.5	9418.5	9325.9	9323.0	9296.9	9103.1	9004.6	9065.4	8182.7
37.5°	9583.5	9592.1	9728.2	9731.0	9703.6	9715.1	9742.6	9621.0	9648.6	9838.1	8833.9
40°	9951.0	9974.2	10072.5	10102.9	10150.7	10191.2	10328.6	10249.1	10461.7	10797.5	9644.2
42.5°	10223.0	10267.9	10425.6	10503.8	10658.6	10722.2	10916.2	10989.9	11418.3	11921.8	10607.9
45°	10453.1	10522.6	10775.8	10936.4	11198.3	11309.7	11587.5	11834.9	12499.1	13141.6	11622.3
47.5°	10702.0	10790.2	11107.1	11413.9	11769.8	11895.8	12400.8	12771.1	13652.4	14368.7	12578.7
50°	11068.1	11136.1	11445.7	11927.5	12371.8	12533.9	13232.7	13763.8	14824.5	15537.8	13407.9
52.5°	11578.9	11552.8	11814.7	12490.5	13086.7	13286.3	14121.2	14820.1	16012.5	16595.6	14108.2
55°	12092.5	12049.1	12232.9	13079.4	13920.1	14129.9	15099.4	15880.7	17142.5	17547.7	14645.0
57.5°	12664.1	12581.6	12736.4	13743.6	14869.3	15119.7	16194.8	17008.0	18253.9	18317.5	14986.6
60°	13253.0	13141.6	13315.3	14566.9	16074.7	16369.8	17476.8	18107.7	19301.5	18933.9	15096.5
62.5°	13768.2	13690.0	13957.8	15485.8	17433.4	17757.5	18735.7	19276.9	20334.6	19190.1	14700.0
65°	14218.1	14231.2	14694.2	16518.9	18948.4	19294.2	20179.7	20718.1	21147.8	19038.1	13772.5
67.5°	14755.0	14828.8	15618.9	17879.1	20855.5	21234.6	22280.8	22289.5	21602.2	18146.7	11946.4
70°	15537.8	15689.8	16890.7	19765.9	23567.2	24088.1	24895.5	23212.7	20964.0	15730.3	9399.7
72.5°	16232.4	16516.0	18243.7	21924.8	26872.2	27267.1	26425.0	22680.2	18297.3	11788.6	5856.0
74°	15950.2	16301.8	18489.7	22988.4	28116.5	28306.1	25908.4	21126.1	15255.7	8163.9	3403.3
75°	15342.5	15724.5	18130.8	22978.3	27958.8	27853.2	24661.1	19350.7	12564.2	5568.0	2264.6
77.5°	12381.9	12785.7	15277.4	19693.6	22924.7	22824.9	18944.0	12981.0	5502.9	1826.1	1150.4
80°	7198.8	7507.0	9483.6	12506.4	15458.2	15639.1	12458.6	6423.2	2164.7	1025.9	779.9
82.5°	3197.8	3410.6	4581.2	6384.2	9328.8	9561.8	6524.5	3365.7	1337.1	623.7	468.8
85°	2098.1	2255.8	2781.1	3040.1	4442.3	4601.5	3193.5	2620.5	882.6	342.9	344.4
87.5°	1509.2	1661.1	2066.3	1804.4	2038.8	1930.3	1737.8	2425.2	354.5	195.3	115.8
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°	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8	7237.8
2.5°	7169.8	7146.7	7094.6	6996.2	6941.2	6894.9	6818.3	6773.4	6753.2	6751.7	6760.3
5°	6991.9	6938.4	6803.7	6638.8	6507.1	6387.1	6238.0	6148.3	6084.6	6047.0	6057.1
7.5°	6784.9	6701.0	6489.8	6226.4	6015.2	5782.2	5552.1	5414.6	5307.6	5228.0	5242.5
10°	6643.1	6527.4	6219.2	5840.1	5488.5	5149.9	4833.0	4643.4	4492.9	4377.2	4385.8
12.5°	6595.4	6439.1	6012.3	5505.8	5012.4	4549.3	4135.5	3844.7	3689.9	3558.1	3568.3
15°	6602.6	6392.8	5838.7	5204.8	4584.1	4000.9	3498.8	3158.8	2949.0	2857.8	2859.3
17.5°	6608.4	6339.3	5656.3	4882.1	4160.1	3488.7	2943.2	2598.8	2400.6	2316.7	2318.1
20°	6589.6	6252.5	5430.5	4511.8	3717.3	3018.4	2490.3	2198.0	2047.5	1982.4	1982.4
22.5°	6565.0	6149.7	5175.9	4139.9	3280.4	2610.4	2166.1	1943.3	1856.5	1813.1	1811.7
25°	6576.6	6073.0	4915.4	3757.9	2878.1	2284.8	1950.6	1802.9	1745.1	1717.6	1716.1
27.5°	6638.8	6036.9	4675.3	3377.3	2526.5	2040.3	1805.8	1701.7	1664.0	1646.7	1646.7
30°	6751.7	6036.9	4424.9	3053.1	2234.1	1859.4	1694.4	1623.5	1597.5	1585.9	1585.9
32.5°	6948.5	6070.2	4183.3	2731.9	2001.2	1717.6	1601.8	1554.1	1533.8	1528.0	1528.0
35°	7287.0	6183.0	3947.4	2428.1	1813.1	1601.8	1513.6	1486.1	1471.6	1470.2	1474.5
37.5°	7763.1	6413.1	3726.0	2203.8	1680.0	1507.8	1439.8	1418.1	1409.3	1416.6	1422.4
40°	8362.2	6725.6	3524.9	2001.2	1578.7	1432.5	1371.7	1357.3	1353.0	1363.0	1371.7
42.5°	9085.7	7148.1	3359.9	1855.1	1500.5	1368.8	1313.9	1296.5	1292.1	1303.7	1315.3
45°	9868.5	7602.5	3244.1	1746.6	1439.8	1321.1	1263.3	1244.5	1235.7	1241.6	1254.5
47.5°	10580.4	8032.3	3197.8	1669.8	1381.9	1280.6	1218.4	1195.2	1180.7	1177.8	1188.0
50°	11180.9	8352.1	3219.5	1623.5	1335.6	1235.7	1175.0	1148.9	1127.2	1114.2	1121.4
52.5°	11617.9	8553.2	3239.8	1603.3	1299.4	1186.5	1127.2	1102.6	1073.7	1052.0	1052.0
55°	11934.8	8599.5	3194.9	1587.4	1271.9	1133.0	1073.7	1050.5	1021.5	996.9	994.1
57.5°	12059.3	8469.3	3028.6	1564.2	1253.1	1082.4	1017.2	999.8	975.2	946.4	944.9
60°	11891.4	8067.0	2707.4	1515.0	1228.5	1040.4	960.8	949.2	937.7	910.1	908.7
62.5°	11217.1	7184.3	2292.1	1415.1	1179.3	995.5	908.7	914.5	916.0	897.2	894.3
65°	9994.4	5971.8	1886.8	1285.0	1105.5	942.0	855.2	882.6	898.6	895.7	891.3
67.5°	8217.5	4647.8	1598.9	1147.5	1008.6	868.2	797.3	829.2	842.1	852.3	849.4
70°	6099.1	3277.5	1322.5	1002.8	891.3	781.4	722.0	738.0	729.3	740.9	745.2
72.5°	3400.4	1966.5	1078.0	858.0	769.8	680.1	638.1	635.2	616.4	616.4	616.4
74°	2040.3	1442.7	947.8	768.3	696.0	613.5	577.4	564.3	547.0	548.4	547.0
75°	1640.9	1240.1	869.6	709.0	643.9	574.5	538.2	520.9	507.9	507.9	506.5
77.5°	1036.1	942.0	700.3	564.3	515.1	473.1	448.5	425.4	425.4	423.9	422.5
80°	782.8	749.5	545.5	426.8	395.1	363.2	347.3	337.1	337.1	341.5	340.0
82.5°	536.9	564.3	383.4	298.1	282.2	259.0	256.1	257.6	253.2	247.4	246.0
85°	392.2	423.9	259.0	188.1	172.1	157.7	169.3	175.1	167.9	154.8	149.0
87.5°	150.4	277.8	138.9	78.2	72.4	62.2	72.4	75.3	81.0	63.6	65.1
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)