

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: P192561

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-5MQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20254.5 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 191
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



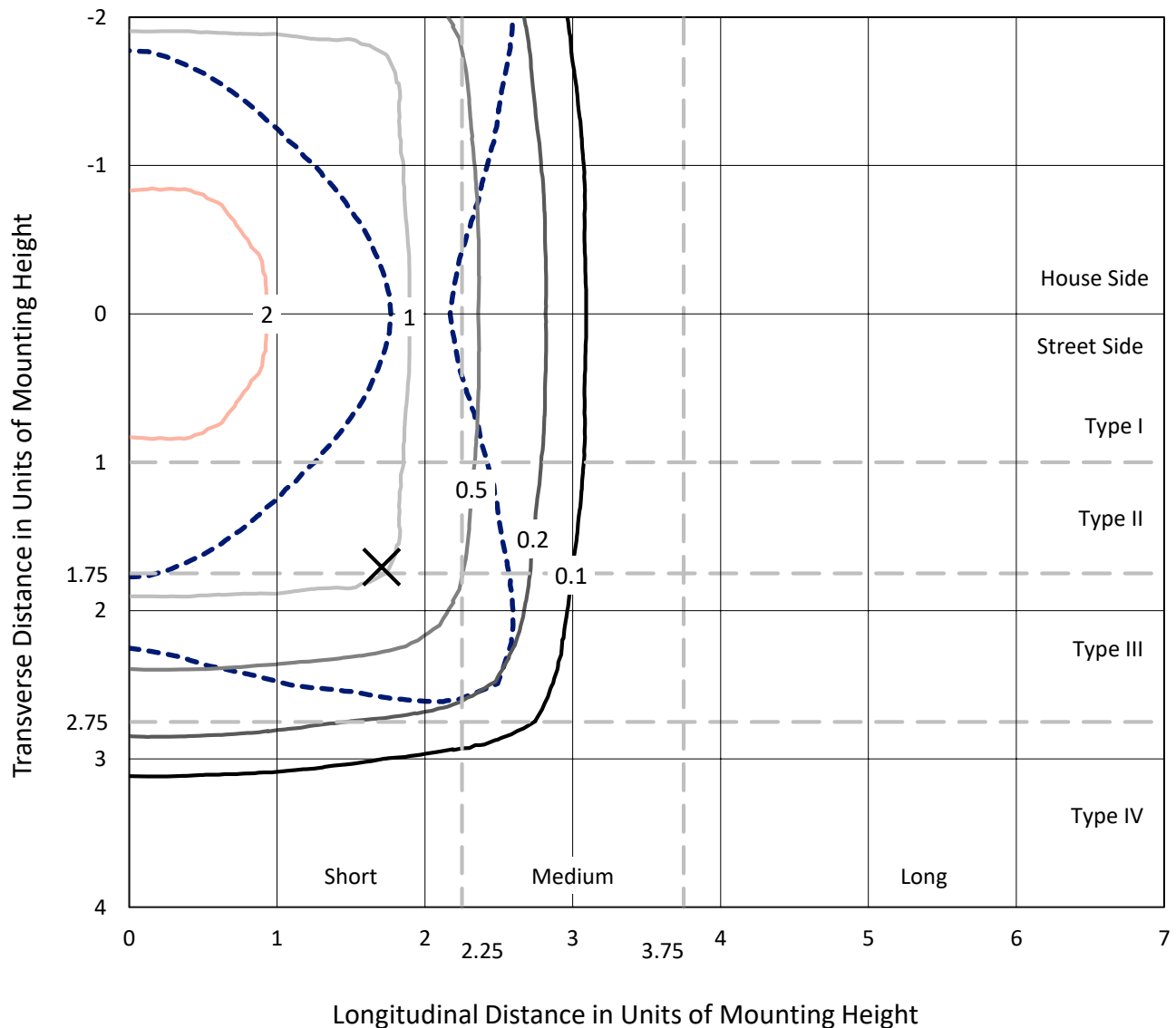
REPORT NUMBER: P192561

CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

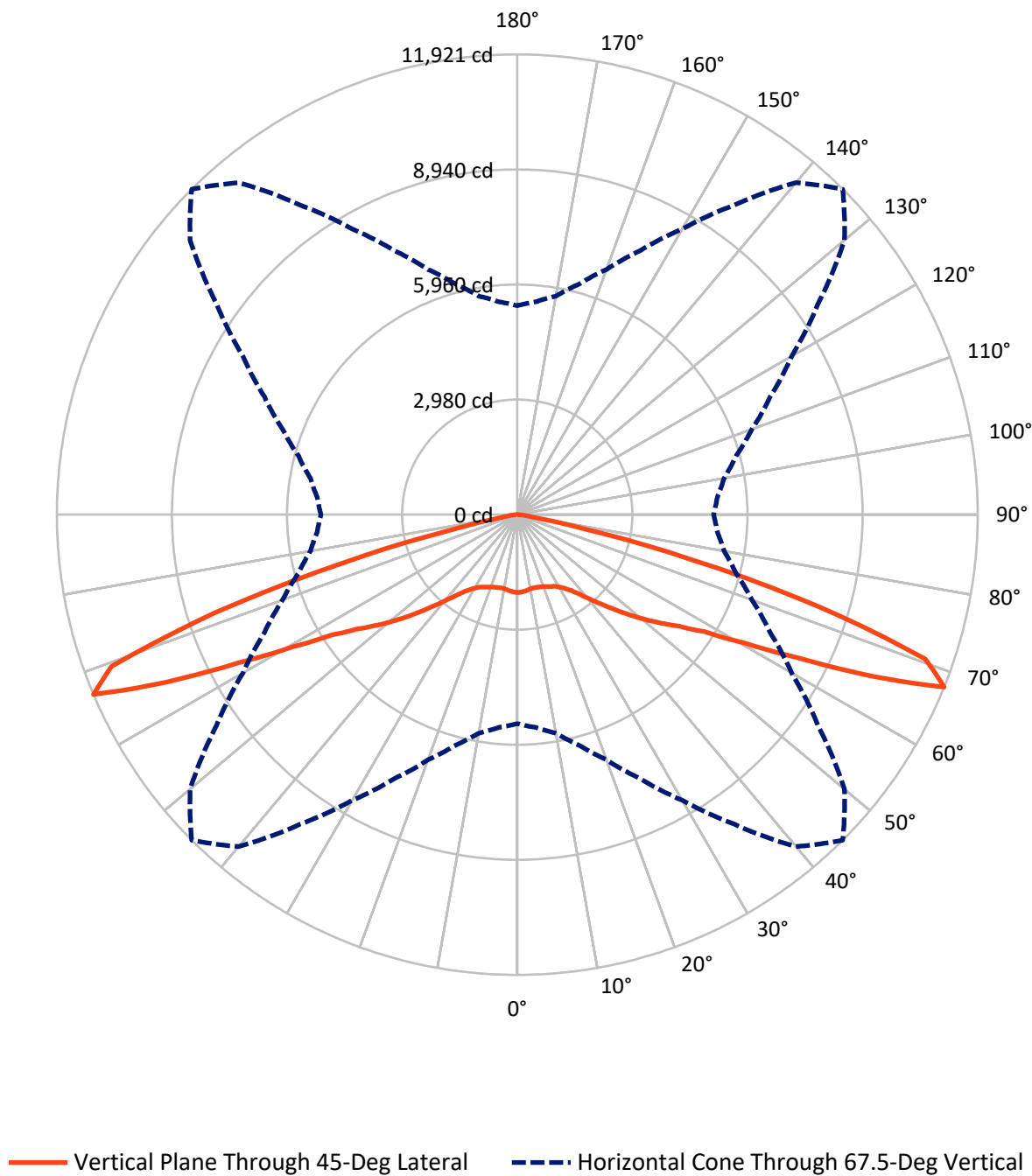


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type V - Short - Full Cutoff

REPORT NUMBER: P192561

CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P192561

CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10127.2	0.0	10127.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10127.2	0.0	10127.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	20254.5	0.0	20254.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	0.9
10°-20°	548.2	2.7
20°-30°	931.9	4.6
30°-40°	1523.4	7.5
40°-50°	2719.6	13.4
50°-60°	4585.3	22.6
60°-70°	7115.7	35.1
70°-80°	2500.1	12.3
80°-90°	141.3	0.7
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°	20254.5	100.0
0°-180°	20254.5	100.0

Coefficient of Utilization



REPORT NUMBER: P192561

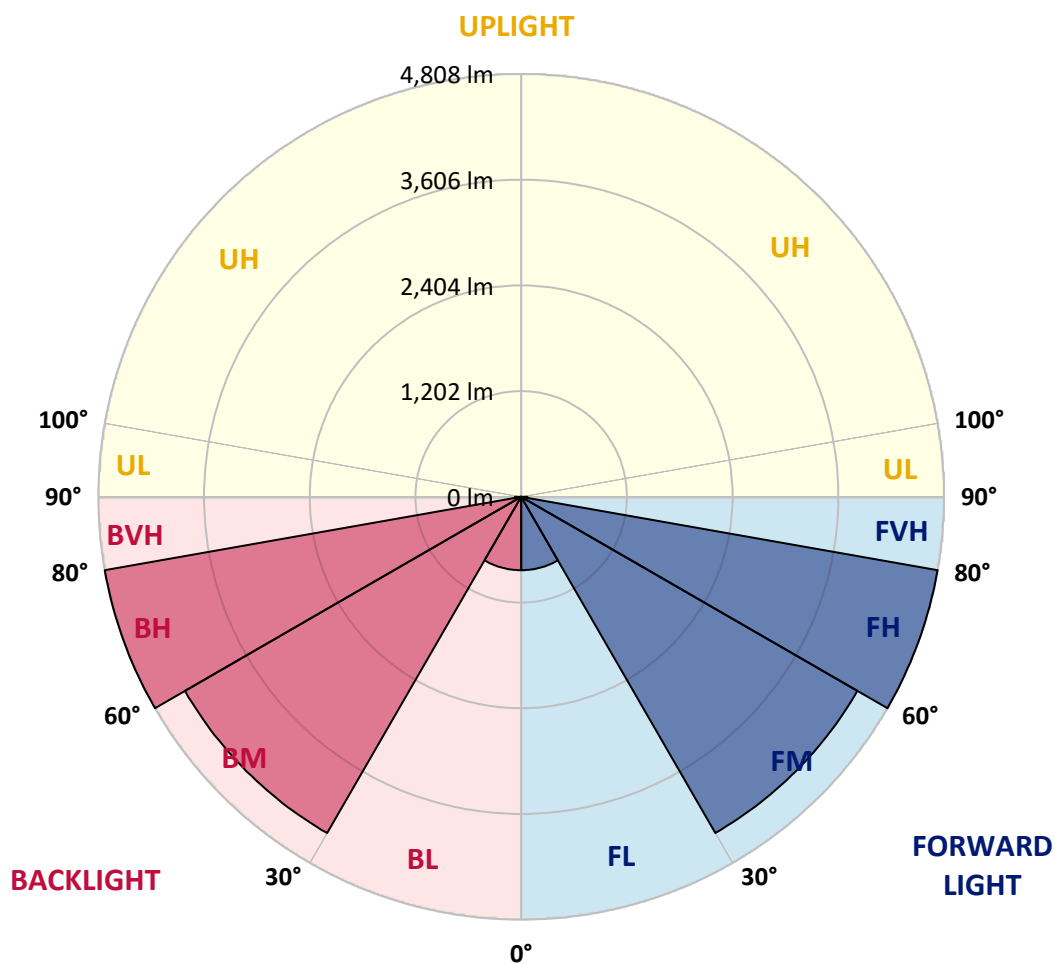
CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	834.5	4.1			
FM	(30°-60°)	4414.2	21.8			
FH	(60°-80°)	4807.9	23.7			G2/5000
FVH	(80°-90°)	70.6	0.3			G1/100
BL	(0°-30°)	834.5	4.1	B2/1000		
BM	(30°-60°)	4414.2	21.8	B3/5000		
BH	(60°-80°)	4807.9	23.7	B4/5000		G2/5000
BVH	(80°-90°)	70.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



REPORT NUMBER: P192561

CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4
2.5°	2011.0	2012.9	2012.9	2012.9	2011.9	2011.9	2010.1	2011.9	2011.0	2008.1	2009.2
5°	1994.2	1996.0	1996.0	1995.2	1998.0	1997.0	1994.2	1996.0	1995.2	1993.3	1994.2
7.5°	1970.1	1972.7	1972.7	1971.9	1974.7	1973.8	1971.9	1972.7	1972.7	1970.1	1970.1
10°	1942.9	1944.9	1944.9	1943.9	1948.6	1948.6	1947.6	1950.5	1951.4	1948.6	1946.7
12.5°	1917.8	1920.7	1920.7	1924.4	1929.0	1930.9	1935.5	1939.3	1942.9	1942.1	1938.4
15°	1903.0	1904.8	1908.5	1913.2	1920.7	1927.2	1934.7	1942.9	1950.5	1952.4	1946.7
17.5°	1893.7	1896.4	1901.9	1908.5	1918.8	1929.9	1941.1	1952.4	1962.6	1966.2	1959.8
20°	1890.8	1892.7	1898.3	1909.5	1923.4	1940.2	1956.1	1969.1	1983.0	1987.8	1983.0
22.5°	1896.4	1900.1	1906.7	1919.6	1938.4	1959.8	1978.3	1996.0	2013.7	2022.2	2015.7
25°	1921.6	1925.2	1933.7	1950.5	1970.9	1993.3	2014.7	2035.2	2051.1	2059.4	2054.7
27.5°	1968.2	1972.7	1983.0	1999.8	2022.2	2046.4	2069.7	2086.5	2099.5	2102.2	2096.6
30°	2038.0	2048.3	2060.4	2078.9	2105.1	2125.5	2148.8	2163.8	2179.6	2179.6	2175.0
32.5°	2147.0	2157.3	2170.2	2187.9	2208.4	2230.8	2251.3	2264.4	2281.2	2282.1	2270.9
35°	2310.0	2314.6	2325.8	2336.9	2355.6	2375.2	2392.9	2401.3	2415.2	2416.2	2405.9
37.5°	2525.2	2526.1	2533.5	2537.2	2554.1	2575.5	2592.1	2597.8	2610.9	2609.0	2598.7
40°	2775.7	2780.3	2783.2	2788.8	2806.5	2827.0	2844.7	2847.4	2861.4	2858.7	2845.5
42.5°	3065.4	3067.2	3083.1	3091.5	3108.2	3118.5	3140.8	3143.6	3160.5	3152.9	3138.0
45°	3390.5	3407.2	3422.1	3438.9	3456.6	3468.7	3486.4	3482.6	3493.9	3482.6	3474.3
47.5°	3732.3	3744.5	3777.9	3804.1	3833.0	3843.2	3868.4	3857.1	3868.4	3852.5	3849.6
50°	4108.5	4130.0	4159.0	4188.7	4219.5	4236.2	4268.9	4254.9	4269.8	4254.9	4246.5
52.5°	4479.3	4484.9	4548.3	4592.0	4634.9	4654.5	4674.0	4667.4	4668.4	4667.4	4659.2
55°	4831.5	4844.4	4907.8	4967.4	5041.9	5096.8	5130.4	5126.7	5118.2	5109.9	5096.0
57.5°	5228.2	5241.2	5314.0	5387.5	5472.2	5550.5	5618.4	5688.4	5715.4	5722.8	5692.1
60°	5764.7	5763.8	5860.6	5950.0	6071.2	6187.6	6336.6	6488.5	6662.6	6743.7	6636.5
62.5°	6310.6	6332.8	6472.6	6631.0	6880.6	7123.7	7398.5	7668.6	7944.4	8168.8	7930.4
65°	6245.4	6331.0	6538.7	6897.3	7358.4	7906.1	8498.5	9125.4	9691.8	10081.1	9644.2
67.5°	5412.6	5534.6	5746.1	6182.0	6758.6	7548.4	8543.2	9783.0	11223.8	11920.6	11057.2
70°	3923.3	4061.0	4282.8	4708.4	5279.4	6030.2	7110.7	8599.1	10506.7	11209.0	10258.1
72.5°	1952.4	2026.9	2163.8	2434.9	2867.0	3476.2	4456.0	5886.8	7574.5	8219.1	7350.1
75°	663.2	697.6	720.9	809.4	946.4	1185.7	1672.9	2573.6	3926.0	4706.6	3870.2
77.5°	382.9	383.7	399.6	415.4	438.6	464.8	530.0	695.8	1203.4	1709.3	1245.3
80°	247.8	246.8	259.9	271.9	287.8	300.9	304.7	322.4	371.7	440.6	394.0
82.5°	128.5	144.3	173.2	189.1	218.8	224.5	217.0	210.6	222.6	231.0	236.5
85°	70.8	61.5	92.3	119.2	132.3	134.2	134.2	126.6	131.3	128.5	139.8
87.5°	32.6	29.8	36.3	58.7	62.4	53.1	55.9	49.3	35.4	34.4	39.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P192561

CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7030-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4
2.5°	2009.2	2010.1	2010.1	2012.9	2013.7	2015.7	2017.5	2018.4
5°	1993.3	1996.0	1994.2	1997.0	1997.0	1998.9	1998.9	1999.8
7.5°	1970.1	1972.7	1972.7	1972.7	1971.9	1974.7	1974.7	1974.7
10°	1945.8	1947.6	1946.7	1944.9	1942.9	1945.8	1944.9	1943.9
12.5°	1938.4	1933.7	1929.9	1928.1	1924.4	1925.2	1922.5	1922.5
15°	1942.9	1934.7	1928.1	1925.2	1921.6	1919.6	1917.8	1918.8
17.5°	1955.0	1944.9	1936.5	1931.8	1927.2	1924.4	1920.7	1921.6
20°	1976.5	1964.4	1952.4	1942.9	1934.7	1929.9	1927.2	1926.2
22.5°	2008.1	1990.4	1972.7	1958.8	1947.6	1941.1	1938.4	1936.5
25°	2044.6	2025.0	2004.5	1988.6	1977.5	1969.1	1963.5	1963.5
27.5°	2090.1	2074.3	2055.7	2037.0	2026.9	2018.4	2014.7	2012.9
30°	2166.5	2151.7	2136.8	2119.1	2106.0	2097.7	2091.1	2085.5
32.5°	2264.4	2252.3	2240.2	2227.1	2215.0	2203.8	2193.6	2188.9
35°	2402.2	2392.9	2384.5	2369.7	2364.9	2358.5	2352.8	2348.2
37.5°	2592.1	2588.5	2588.5	2572.6	2568.9	2566.2	2560.6	2561.5
40°	2841.9	2845.5	2841.0	2835.3	2832.5	2825.1	2825.1	2831.6
42.5°	3137.2	3139.9	3150.2	3140.8	3151.0	3141.7	3136.2	3140.8
45°	3479.9	3490.2	3510.6	3501.3	3507.9	3492.0	3472.5	3473.4
47.5°	3864.6	3873.9	3882.3	3875.8	3876.6	3850.7	3824.5	3817.9
50°	4264.2	4267.8	4272.6	4263.2	4265.1	4236.2	4206.4	4207.3
52.5°	4659.2	4676.9	4695.4	4670.3	4664.8	4632.0	4590.2	4573.4
55°	5110.8	5135.9	5114.5	5070.8	5027.0	4983.2	4928.2	4919.0
57.5°	5667.9	5625.0	5557.9	5475.1	5414.5	5353.0	5297.1	5273.8
60°	6442.8	6281.7	6160.6	6037.6	5960.3	5884.9	5811.3	5800.1
62.5°	7538.3	7259.7	7018.5	6764.1	6556.4	6394.4	6264.9	6228.6
65°	8911.1	8252.6	7681.7	7148.9	6685.9	6336.6	6116.8	6019.9
67.5°	9501.7	8201.4	7222.5	6466.1	5860.6	5437.9	5200.3	5081.9
70°	8349.5	6801.4	5736.7	4979.5	4428.1	3977.2	3762.2	3635.4
72.5°	5744.2	4326.5	3421.2	2792.4	2352.0	1974.7	1825.6	1814.5
75°	2579.2	1708.3	1177.4	907.2	763.8	664.1	633.3	610.1
77.5°	721.8	533.7	476.0	445.2	415.4	381.0	367.8	370.7
80°	351.2	331.6	318.6	299.1	271.9	243.1	230.1	235.7
82.5°	232.8	230.1	238.4	224.5	185.3	157.5	132.3	121.1
85°	141.6	143.4	146.2	147.2	124.8	87.5	59.6	67.0
87.5°	55.9	64.3	69.8	72.6	68.0	41.9	33.6	34.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)