

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: P197872

Luminaire Tested: **TT-C1-LED-E1-WQ-SG-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TT-C1-LED-E1-WQ-SG-LWR-LW-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2939.2 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 28
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



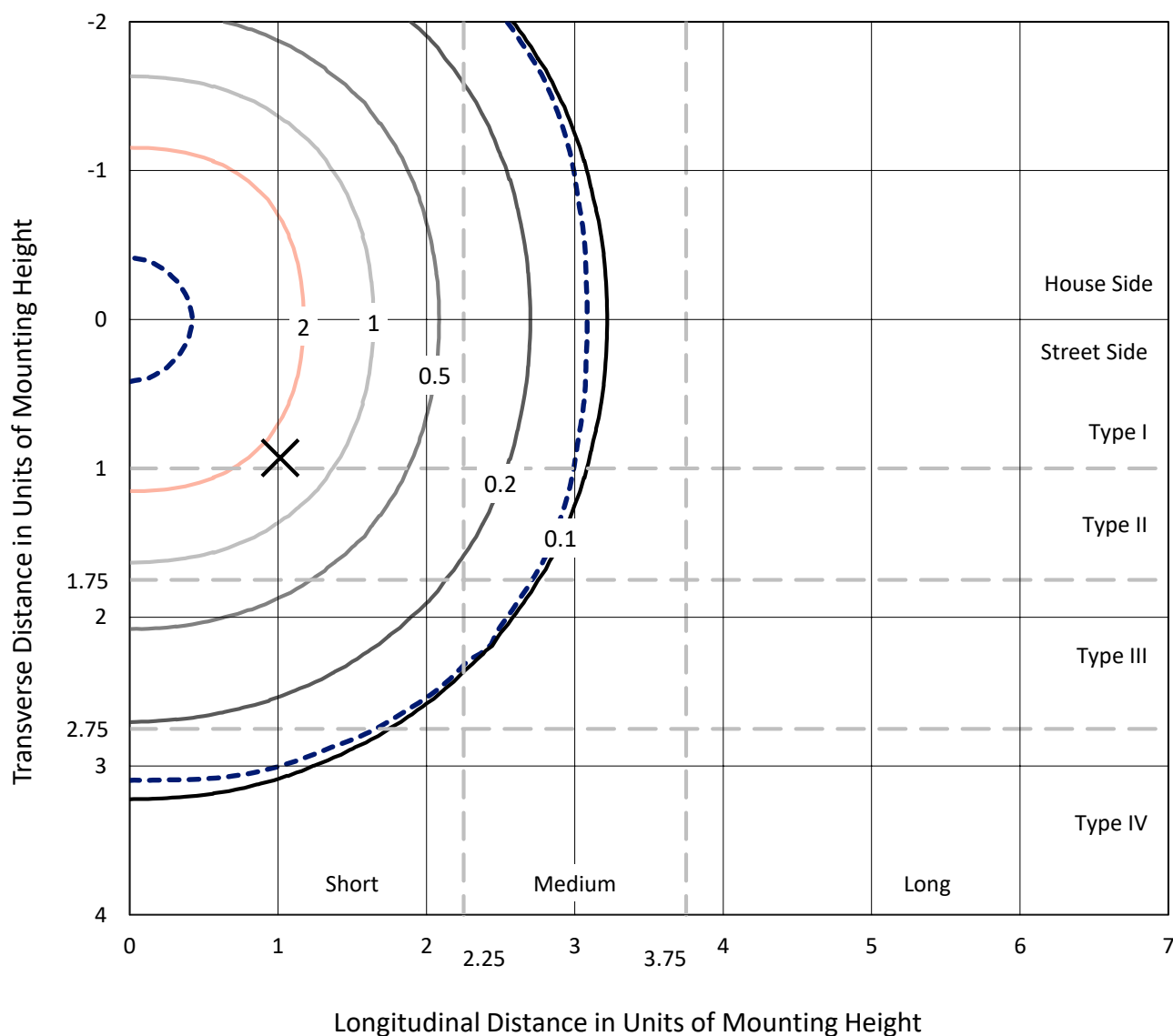
REPORT NUMBER: P197872

CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-LWR-LW-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

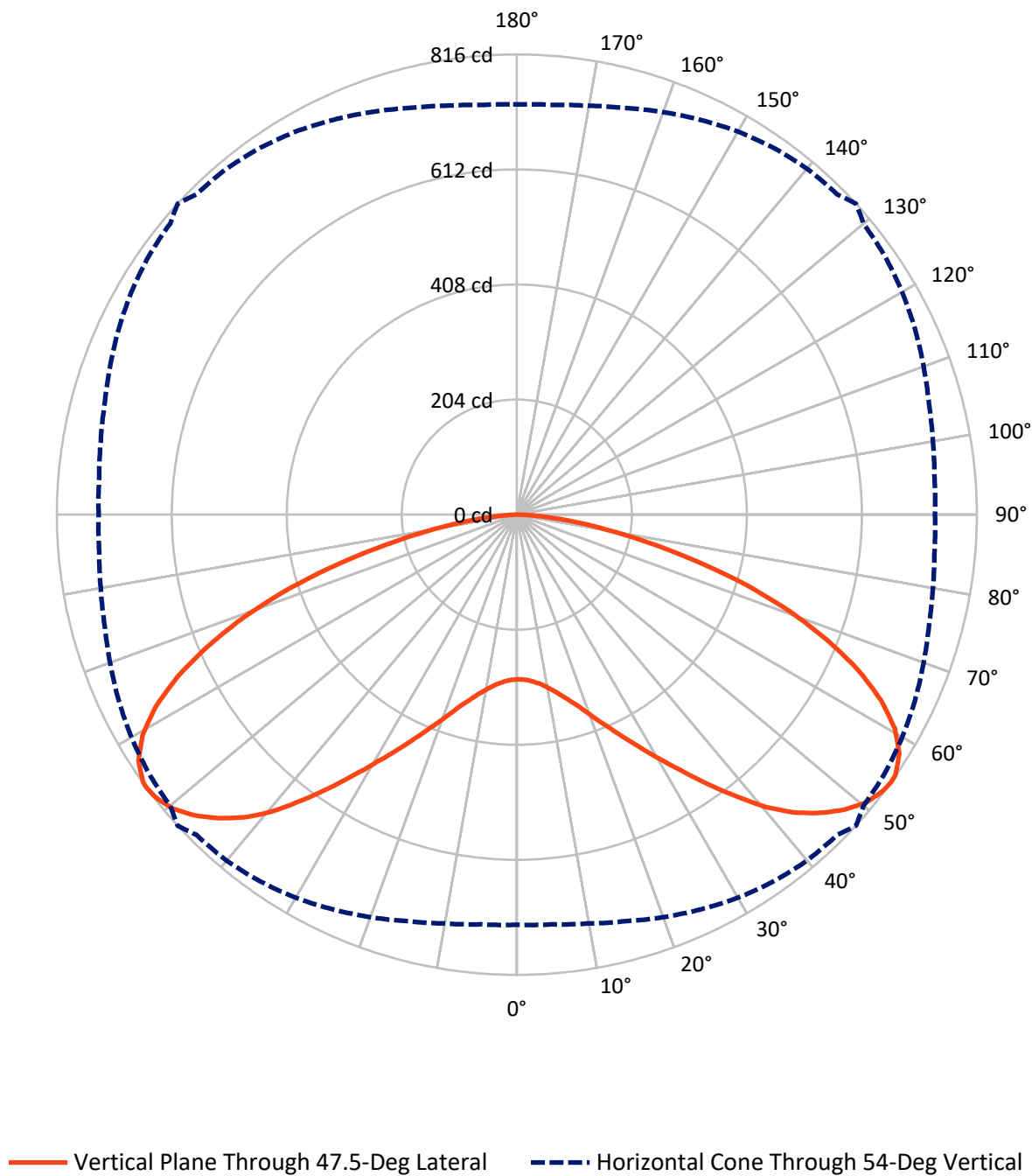


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197872

CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-LWR-LW-7060

Luminous Intensity Polar Plot



REPORT NUMBER: P197872

CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-LWR-LW-7060

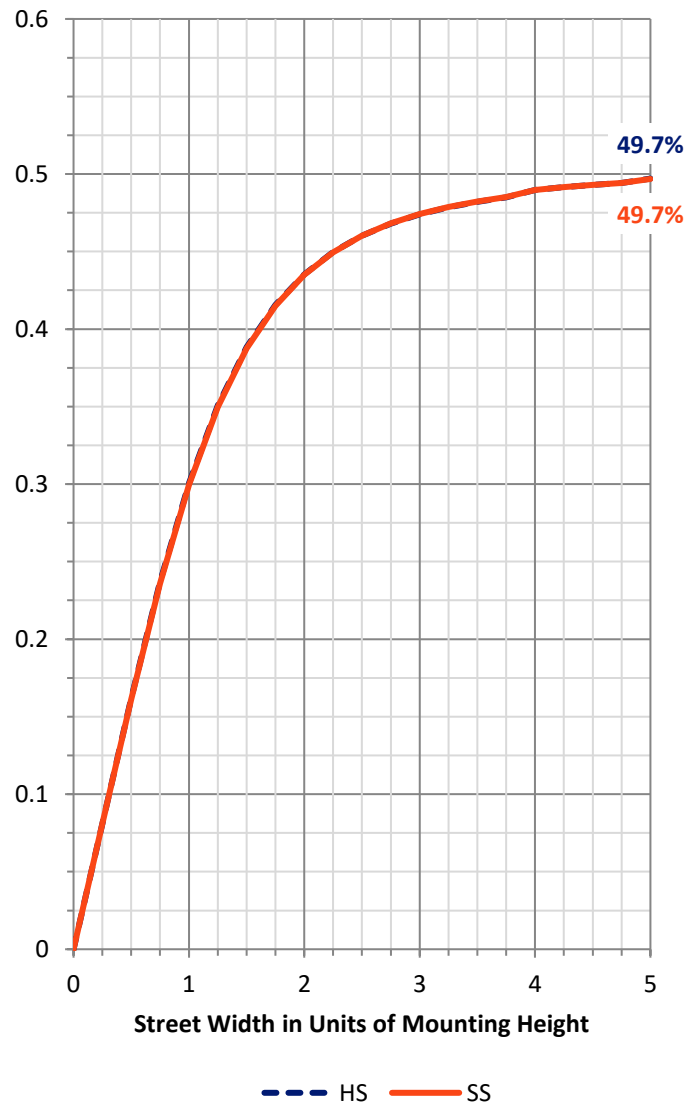
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.6	0.0	1469.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1469.6	0.0	1469.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	2939.2	0.0	2939.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	1.0
10°-20°	97.7	3.3
20°-30°	201.1	6.8
30°-40°	359.6	12.2
40°-50°	551.8	18.8
50°-60°	680.3	23.1
60°-70°	615.5	20.9
70°-80°	338.9	11.5
80°-90°	65.5	2.2
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°	2939.2	100.0
0°-180°	2939.2	100.0

Coefficient of Utilization



REPORT NUMBER: P197872

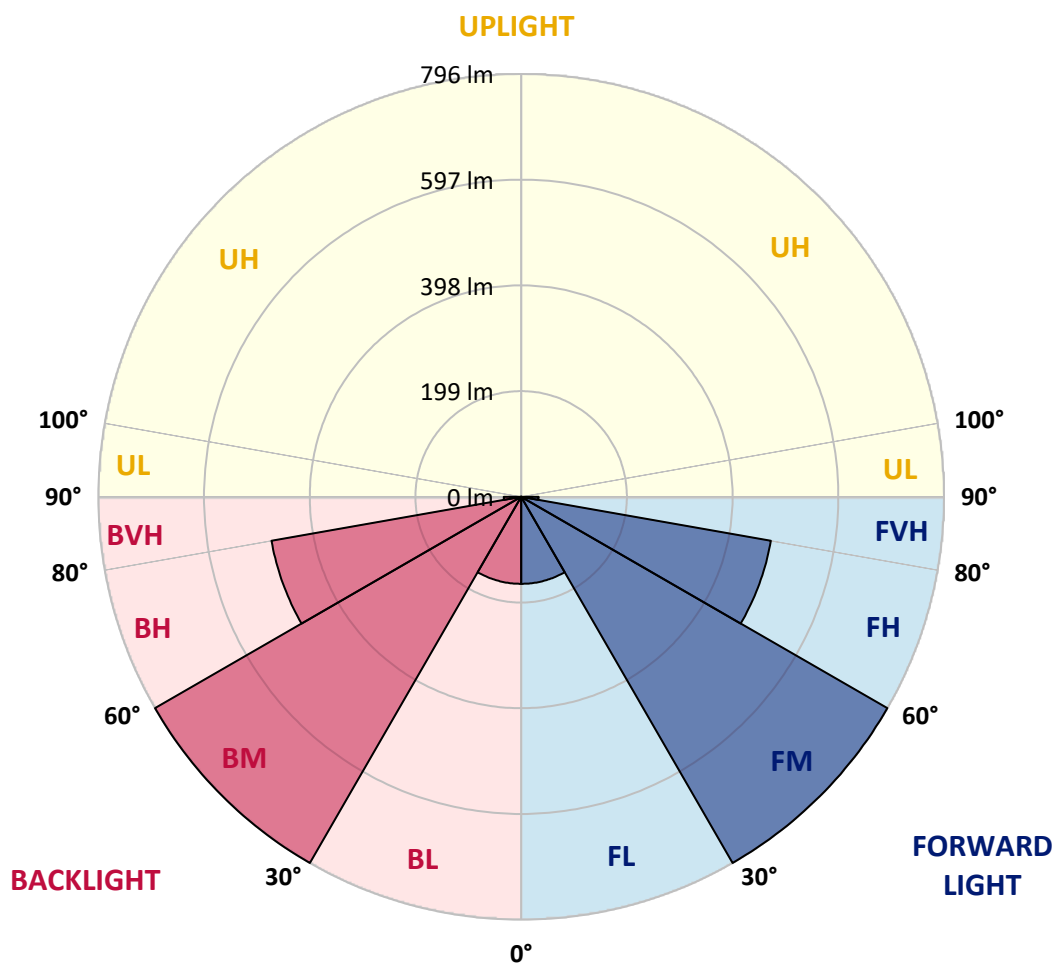
CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-LWR-LW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	163.8	5.6			
FM	(30°-60°)	795.9	27.1			
FH	(60°-80°)	477.2	16.2			G0/660
FVH	(80°-90°)	32.8	1.1			G1/100
BL	(0°-30°)	163.8	5.6	B1/500		
BM	(30°-60°)	795.9	27.1	B1/1000		
BH	(60°-80°)	477.2	16.2	B1/500		G0/660
BVH	(80°-90°)	32.8	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type V Short



REPORT NUMBER: P197872

CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-LWR-LW-7060

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	291.8	291.8	291.8	291.8	291.8	291.8	291.8	291.8	291.8	291.8	291.8
2.5°	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1
5°	296.9	296.9	296.9	297.6	296.9	296.9	296.9	296.9	296.9	296.9	296.9
7.5°	303.3	303.3	303.3	303.3	303.3	303.3	302.6	302.6	303.3	302.6	303.3
10°	312.1	311.5	311.5	312.1	312.1	311.5	312.1	312.1	312.1	312.1	312.8
12.5°	323.6	323.6	324.2	324.2	324.2	324.8	324.8	324.2	324.8	324.8	324.8
15°	338.8	338.8	338.8	338.8	339.4	340.1	339.4	339.4	338.8	338.8	340.1
17.5°	356.6	356.6	356.6	356.6	357.8	357.8	357.2	357.8	358.5	358.5	357.8
20°	378.1	377.5	376.9	377.5	378.8	378.8	379.4	380.0	380.0	380.0	381.3
22.5°	401.0	400.3	401.6	402.2	402.9	403.5	403.5	404.1	405.4	404.8	406.7
25°	426.3	425.7	426.3	427.6	430.2	430.2	430.8	432.1	432.1	431.4	435.9
27.5°	454.9	454.9	455.5	458.1	458.7	459.3	461.2	462.5	464.4	464.4	468.2
30°	486.0	485.3	486.6	489.2	491.1	493.0	495.5	498.7	499.3	499.9	503.7
32.5°	517.7	517.7	519.0	523.4	526.6	529.8	533.6	536.7	538.0	538.0	543.7
35°	551.3	552.0	555.1	558.3	564.7	568.5	572.3	576.7	579.2	580.5	588.1
37.5°	586.9	588.8	591.3	595.7	602.1	608.4	614.1	621.1	624.9	626.2	634.4
40°	620.5	623.0	626.8	633.2	639.5	648.4	655.4	662.4	666.8	669.3	682.0
42.5°	653.5	654.7	659.2	666.2	674.4	682.7	692.2	699.8	704.2	708.0	722.0
45°	679.5	680.8	686.5	694.7	704.2	714.4	723.9	732.8	737.2	740.4	754.4
47.5°	701.1	703.6	709.9	718.2	727.7	739.8	750.5	759.4	765.1	767.0	781.6
50°	716.9	720.7	726.4	736.0	747.4	759.4	770.8	780.4	786.7	789.2	802.6
52.5°	725.8	729.0	735.3	744.8	758.2	770.2	782.3	791.8	798.8	801.3	813.4
54°	727.1	729.0	736.0	746.1	759.4	772.1	784.2	793.7	800.7	803.2	815.9
55°	725.8	727.1	734.7	744.2	758.2	770.8	782.9	792.4	800.0	802.6	814.6
57.5°	713.1	715.0	721.4	731.5	744.2	758.8	770.2	779.7	787.3	788.6	800.0
60°	687.1	689.6	695.3	706.1	718.8	731.5	742.9	751.2	758.2	762.0	770.2
62.5°	649.7	650.9	656.6	666.2	677.6	690.9	699.8	708.0	714.4	718.2	725.2
65°	596.4	602.1	606.5	614.1	623.0	633.8	645.2	651.6	654.7	661.1	666.2
67.5°	536.7	540.5	545.0	552.0	557.7	564.7	575.4	581.1	585.0	589.4	593.8
70°	470.1	468.9	473.9	477.7	484.1	488.5	495.5	498.7	503.1	505.7	513.3
72.5°	390.8	392.7	397.2	401.6	403.5	404.8	410.5	412.4	416.2	414.9	424.4
75°	319.1	316.0	317.2	317.9	319.1	317.9	321.7	323.6	325.5	323.6	328.6
77.5°	241.1	237.3	238.6	237.9	237.9	236.6	236.0	236.0	236.6	235.4	238.6
80°	166.2	164.3	165.0	166.2	163.1	163.7	159.9	159.9	159.9	159.9	161.1
82.5°	102.8	100.2	99.6	100.2	100.2	98.3	99.0	96.4	95.8	95.2	100.9
85°	50.1	48.9	50.1	48.9	48.2	48.2	46.9	47.6	46.3	45.7	49.5
87.5°	13.3	12.7	12.7	12.7	12.1	12.7	12.7	12.7	12.7	13.3	15.2
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: P197872

CATALOG NUMBER: TT-C1-LED-E1-WQ-SG-LWR-LW-7060

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	291.8	291.8	291.8	291.8	291.8	291.8	291.8	291.8	291.8
2.5°	293.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1	292.5
5°	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9
7.5°	303.3	303.3	302.6	302.6	302.6	302.6	302.6	302.6	302.6
10°	312.1	312.8	311.5	311.5	312.1	311.5	311.5	310.9	310.9
12.5°	324.8	324.2	324.8	324.8	324.2	323.6	322.9	322.3	322.9
15°	339.4	338.8	338.8	338.8	338.2	338.2	337.5	338.2	337.5
17.5°	357.2	357.2	357.8	355.9	356.6	355.3	355.3	355.3	354.7
20°	380.0	379.4	378.8	376.9	377.5	376.2	375.6	375.0	374.3
22.5°	404.8	403.5	402.9	401.0	401.6	400.3	398.4	397.2	397.2
25°	432.1	430.8	429.5	428.9	428.2	425.7	424.4	422.5	423.8
27.5°	464.4	461.9	460.0	457.4	458.1	454.9	453.6	452.4	452.4
30°	499.3	497.4	494.2	492.3	491.7	488.5	486.0	484.7	484.1
32.5°	537.4	536.1	534.2	531.0	529.8	524.7	522.8	520.9	520.2
35°	582.4	579.2	577.3	572.9	568.5	565.3	560.8	559.6	558.3
37.5°	624.3	624.3	621.1	616.0	609.7	605.3	601.5	598.9	597.0
40°	668.7	667.4	662.4	657.9	651.6	645.2	638.2	635.7	634.4
42.5°	708.0	705.5	700.4	694.7	688.4	680.8	673.1	669.3	668.7
45°	741.0	737.9	732.8	725.2	716.9	709.3	702.3	698.5	696.6
47.5°	767.7	763.9	757.5	750.5	741.0	732.1	725.2	721.4	718.8
50°	787.3	784.2	777.2	768.3	758.8	748.6	741.7	737.2	735.3
52.5°	800.0	795.6	788.0	778.5	767.7	757.5	749.3	744.2	742.3
54°	802.6	797.5	789.2	779.1	767.7	756.9	749.3	743.6	741.7
55°	801.3	796.2	787.3	777.8	765.8	755.0	746.7	741.0	739.1
57.5°	788.0	782.3	774.0	763.9	751.2	740.4	732.8	726.4	724.5
60°	759.4	754.4	744.8	736.0	723.3	712.5	704.2	697.9	696.0
62.5°	715.7	711.2	703.0	694.1	680.8	671.2	663.0	659.2	654.1
65°	657.3	654.1	645.9	635.1	625.6	616.0	607.8	605.3	602.1
67.5°	587.5	583.1	579.9	569.1	561.5	552.6	544.4	539.3	538.0
70°	505.0	503.1	499.9	489.8	485.3	477.7	472.0	467.6	466.3
72.5°	416.2	414.3	413.7	408.6	402.9	395.9	393.4	389.5	388.9
75°	323.6	322.3	323.6	319.8	317.9	316.0	314.7	314.7	312.8
77.5°	234.1	236.0	236.6	236.6	237.9	237.9	239.2	237.3	235.4
80°	159.2	161.1	160.5	161.8	161.1	165.6	162.4	165.0	162.4
82.5°	95.8	98.3	98.3	98.3	100.9	100.2	100.2	101.5	100.9
85°	46.9	47.6	46.9	46.3	49.5	48.9	48.9	48.2	48.9
87.5°	14.0	12.7	13.3	12.1	13.3	11.4	12.7	12.7	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)